

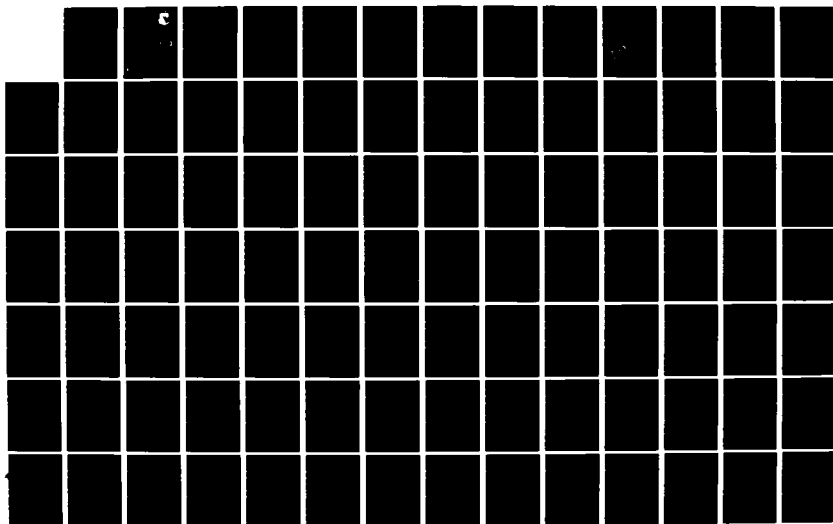
AD-A122 844

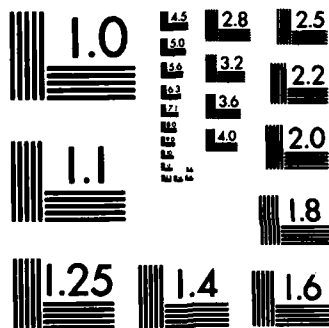
FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE INC
HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL
RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82
AFAMRL-TR-81-148 F/G 6/6

1/3

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AD A122844



CANFIELD ACQUISITION DATA FOR THE TEXAS
AIR FORCE MEDICAL DIVISION

CRM

DTIC

DEC 30 1983

GH

Approved for public release; distribution unlimited

FULL COPY

AIR FORCE AIRSPACE MEDICAL RESEARCH LABORATORY
AIRSPACE MEDICAL DIVISION
AIRSPACE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

82 12 29 042

NOTICES

When US Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Please do not request copies of this report from Air Force Aerospace Medical Research Laboratory. Additional copies may be purchased from:

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

Federal Government agencies and their contractors registered with Defense Technical Information Center should direct requests for copies of this report to:

Defense Technical Information Center
Cameron Station
Alexandria, Virginia 22314

TECHNICAL REVIEW AND APPROVAL

AFAMRL-TR-81-148

This report has been reviewed by the Office of Public Affairs (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



HENNING E. VON GIERKE, Dr Ing
Director
Biodynamics and Bioengineering Division
Air Force Aerospace Medical Research Laboratory

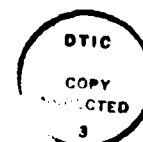
REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AFAMRL-TR-81-148	2. GOVT ACCESSION NO. AD-A122 844	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE, INC. HUSH-HOUSE	5. TYPE OF REPORT & PERIOD COVERED Supplemental Technical Rpt	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s) Robert A. Lee	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Air Force Aerospace Medical Research Laboratory, Aerospace Medical Division, Air Force Systems Command, Wright-Patterson AFB, OH 45433	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 62202F 723107AA 72310714	
11. CONTROLLING OFFICE NAME AND ADDRESS Same as above	12. REPORT DATE April 1982	
	13. NUMBER OF PAGES 287	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Aircraft Noise Airbase Planning Community Noise Exposure Hush-House Suppressors		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report supplements AFAMRL-TR-73-110, which describes the data base (NOISEFILE) used in the computer program (NOISE/TAP) to predict the community noise exposure resulting from military aircraft operations. The results of field test measurements to define the single-event noise produced on the ground by military aircraft/engines operating in the Texas ASE Inc. hush-house are presented as a function of angle (0° to 180° from the front of the hush-house) and distance (200 ft to 2500 ft) in various acoustic metrics. All the data are normalized to standard acoustic reference conditions of 59°F temperature and		

70% relative humidity. Refer to Volume 1 of the AFAMRL-TR-73-110 report for discussion of the scope, limitations, and definitions needed to understand and use the data in this report.

SUMMARY

This report presents the single event noise levels of various USAF aircraft/engines operating in the Texas ASE, Inc. hush-house. The hush-house is a structure that totally encloses the aircraft/engine and reduces the far-field noise levels during ground runup operations. This report is a supplement to the 7-volume report, AFAMRL-TR-73-110, Community Noise Exposure Resulting From Aircraft Operation: Acoustic Data on Military Aircraft. Acoustic data are provided for determining total noise exposure at a given point on the ground for any ground runup activity inside the hush-house. These data can readily be used for making preliminary environmental noise impact assessments and evaluating the effectiveness of the Texas ASE, Inc. hush-house.

Accession For	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A	



PREFACE

The author gratefully acknowledges the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Mr. John N. Cole, Mr. Jerry D. Speakman and Mr. Robert G. Powell of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. Fred Lampley both of the University of Dayton Research Institute, the instrumentation development efforts of Harald K. Hille of the Biodynamic Environment Branch; the noise measurement efforts of Lt Bennett, Lt Jones and Ms Murney of the USAF Occupation and Environmental Health Laboratory and the report preparation efforts of Mrs. Norma Peachey of the Biodynamic Environment Branch.

This report is one of a series describing the contractual and in-house research program undertaken by the Air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723107, "Technology to Define and Assess Environmental Quality of Noise From AF Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.



TABLE OF CONTENTS

	Page
INTRODUCTION	4
Measurement Procedures	5
Data Analysis	6
F-4 Aircraft in the Hush-House	7-31
F-15 Aircraft in the Hush-House	32-56
F-16 Aircraft in the Hush-House	57-81
F-105 Aircraft in the Hush-House	82-100
F-106 Aircraft in the Hush-House	101-125
F-111F Aircraft in the Hush-House	126-156
T-38 Aircraft in the Hush-House	157-175
TF41-A-1 Engine in the Hush-House	176-194
J79-GE-15 Engine in the Hush-House	195-207
F100-PW-100 Engine in the Hush-House	208-226
J75-P-19 Engine in the Hush-House	227-245
J75-P-17 Engine in the Hush-House	246-264
TF30-P-100 Engine in the Hush-House	265-283

INTRODUCTION

Aircraft ground runup operations at military airbases produce noise in surrounding communities that may interfere with the way some land may be used, e.g., single family, residential, agricultural, recreational. The United States Air Force, in an effort to be a good neighbor and reduce this unwanted noise, has developed a "hush-house" where all ground maintenance requiring engine run time can be done. The hush-house was built by Aero Systems Engineering of Texas, Inc. as an air cooled suppressor designed to totally enclose an aircraft or engine during ground runup operations. This design permits operation of the aircraft or bare engine under controlled environmental conditions, protects the neighborhood area from noise and minimizes undesirable air pollution through use of an air cooled exhaust system. Soft energy absorbent interior walls reduce sound pressure levels (SPL) on the aircraft structure and large induced air flow around the tail section cools aircraft surfaces. One enclosure serves many different types of aircraft, and provides an efficient enclosed work area for maintenance personnel.

Included herein are 1/3 octave band spectra data at the reference distance (250-foot radius) and extrapolated data defining the acoustic environments produced by the following types of aircraft and engines operating in the hush-house during ground runup operations: F-4, F-15, F-16, F-105, F106, F-111F and T-38 aircraft and the TF41-A-1, J79-GE-15, F100-PW-100, J75-P-19, J75-P-17 and TF30-P-100 engines.

This report supplements the seven volumes of AFAMRL-TR-73-110 (see references 1-7) that describes the AFAMRL NOISEFILE, the USAF acoustic data file for all military aircraft. Inquiries for these data in NOISEFILE format in magnetic tape form should be directed to the Air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, Wright-Patterson AFB, OH 45433.

1. Speakman, J.D., Powell, R.G., Cole, J.N., Community Noise Exposure Resulting From Aircraft Operations: Volume 1. Acoustic Data On Military Aircraft, FAMRL-TR-73-110 (AD AO53699), Air Force Aerospace Medical Research Laboratory, Wright-Patterson AFB, OH 45433
2. Ibid, Volume 2: Air Force Bomber/Cargo Aircraft Noise Data (AD AO53700)
3. Ibid, Volume 3: Air Force Attack/Fighter Aircraft Noise Data (AD AO53701)
4. Ibid, Volume 4: Air Force Trainer/Fighter Aircraft Noise Data (AD AO53702)
5. Ibid, Volume 5: Air Force Propeller Aircraft Noise Data (AD AO55079)
6. Ibid, Volume 6: Navy Aircraft Noise Data (AD AO56217)
7. Ibid, Volume 7: Aircraft Ground Runup Noise Suppressor Data (AD AO83701)

MEASUREMENTS

AFAMRL acquired the far-field data during a 1 to 2-hour test period for each aircraft/engine operating in the hush-house, thus maintaining similar meteorological conditions. Figure 1 shows the hush-house and its orientation relative to 20 microphone measurement sites on a 100 meter (328 feet) semicircle. The center of the front half of the semicircle was located on the ground directly beneath the intersection of the aircraft/engine centerline and a plane passing through the exhaust nozzle. The center of the back half of the semicircle was located on the center of the exhaust stack. This two center approach was used because the hush-house was designed with two main exit ports for the noise generated, the air inlets and the exhaust stack. These two exit ports are located (over 100 ft.) apart, causing the hush-house to act as a two point noise source. In order for this source to be measured as a point source we would have had to have taken the noise measurements at a much larger distance than the 100 meter radius. Measuring at a farther distance would have caused problems because the noise levels would have been reduced and therefore too close to the ambient noise environment to make a clear determination of the source characteristics. The 1/3 octave band spectra for the 90F and 90B positions were arithmetically averaged together to present only single values for the 90° point. This approximation was made because our OMEGA programs only allow 19 angles to be presented. This method for averaging does not significantly affect the values at any of the distances presented.

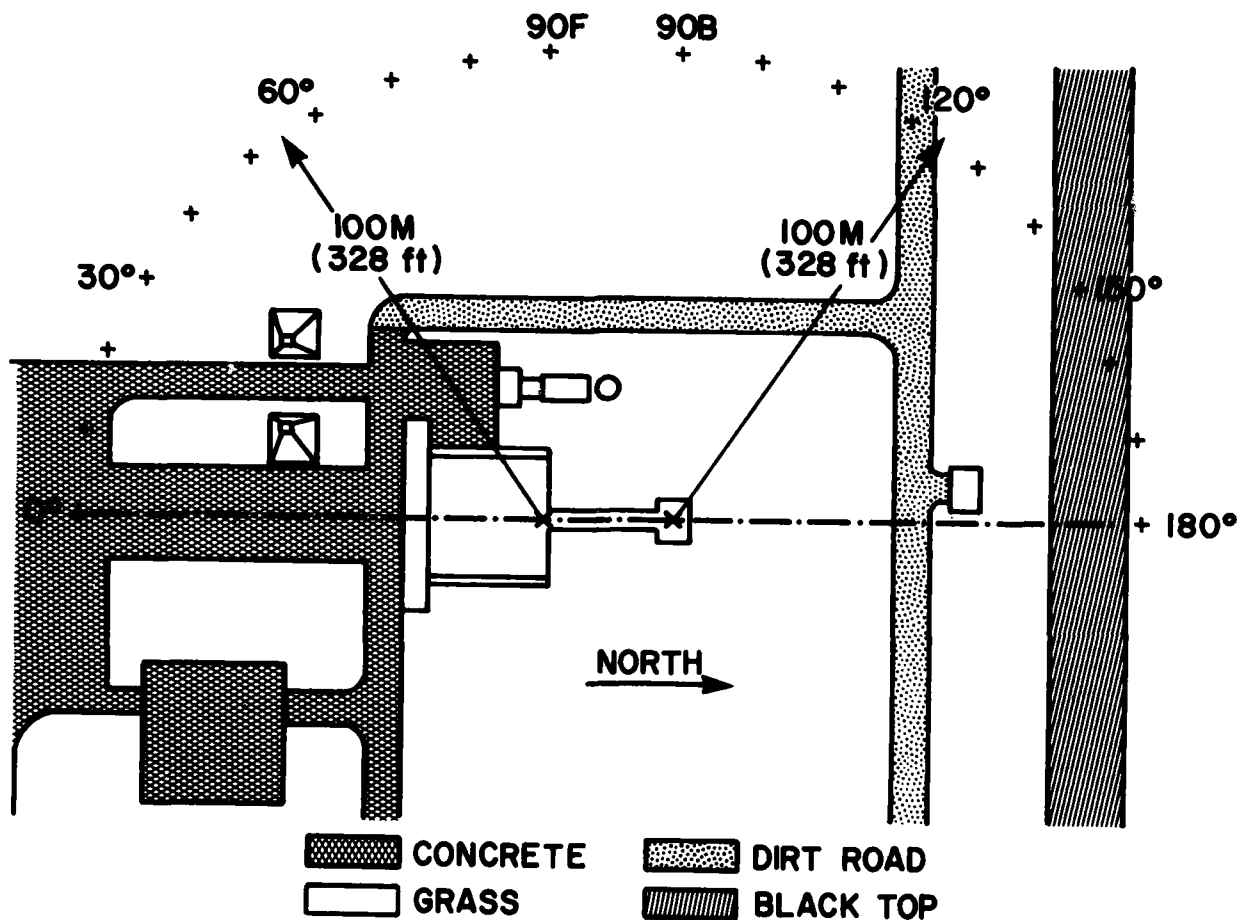


Figure 1. Hush-House Measurement Locations

Measured noise levels for all 19 angles were not available for some aircraft/engine power settings due to the limited measurement schedule and interference from transient sources. The levels for these missing angles were estimated by duplicating the levels closest to the missing angle for which there were measured data (i.e., F-4 idle power data for angles 140° to 180° were duplicated from the measured 130° data).

A portable microphone/tape-recorder system was used to record the noise sequentially at each far-field location. The microphone was attached to a hand-held pole, pointed at the source (0° angle of incidence) and vertically scanned from 0.5 to 3 meters for a period of 5-10 seconds during data acquisition at each microphone location. These samples were then time-integrated to derive a root-mean-square sound pressure level. Vertical scanning and time-integrating together reduce anomalies frequently present in data acquired by a fixed height microphone.

Typically, measurements are performed at three or four engine power conditions ranging from idle to maximum. Note that all of the ground runup values reported in this report are for single engine operation, even though some of the aircraft have more than one engine.

DATA ANALYSIS

Once having the data recorded on magnetic tape, the first steps in our data reduction/analysis process are correction for the frequency response functions of the microphone and record/reproduce instrumentation and conversion to root-mean-square, one-third octave band sound pressure levels punched on cards in digital form. This makes it relatively easy to then use specially designed software programs to perform the multitude of computations for normalizing the data from field test conditions to reference conditions and expressing the data in terms of the desired various single event noise measures. We use a General Radio Real-Time Spectrum Analyzer that is directly interfaced with a Control Data Corporation Model 1700 batch terminal and includes a Model 415 high speed card punch as a peripheral device.

The software developed to reduce the raw data to the various acoustic metrics presented in this report are the AFAMRL OMEGA series of acoustic data reduction programs. (The OMEGA programs with complete documentation are available from the Air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, Wright-Patterson AFB, OH 45433.)

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE (F-4 A/C)

DURING GROUND RUN-JP OPERATIONS

TEST 8F-702-001
AIRCRAFT CODE: 702
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Idle Power, 65% RPM	8
Engine Runup, 85% RPM	14
Military Power, 99% RPM	20
Afterburner Power, 99% RPM	25

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE PATTERSON MEDICAL RESERVE AIR FORCE BASE, LABORATORY

Country	House	House (F-4 A/C)	House (F-4 A/C)	House (F-4 A/C)	House (F-4 A/C)
USA	USAF	HUSH	HUSH	HUSH	HUSH
USA	JSAF	HUSH	HUSH	HUSH	HUSH
USA	JSAF	HUSH	HUSH	HUSH	HUSH
USA	USAF	HUSH	HUSH	HUSH	HUSH

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)														
1/3 OCTAVE BAND														
DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT:														
F-4 AIRCRAFT IN THE														
TEXAS ASE HUSH HOUSE														
OPERATION:														
IDLE POWER (65% RPM)														
SINGLE ENGINE														
GROUND RUNUP IN THE														
TEXAS ASE HUSH HOUSE														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA N = 0.0 DB														
AIRCRAFT CODE 702														
OPERATION CODE 00113														
PROFILE VERSION A														
20 NOV 81														
PAGE C3														
BAND CENTER														
FREQ (HZ)														
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
50	61	59	61	66	67	66	66	67	67	65	64	61	61	61
63	58	58	59	64	62	63	63	63	65	68	63	63	63	63
80	56	55	61	67	60	62	64	58	61	64	59	62	62	62
100	58	55	55	56	56	56	57	55	60	60	61	61	61	61
125	56	53	54	53	55	55	55	54	57	61	60	62	62	62
160	51	48	55	52	48	52	57	47	50	56	55	59	59	59
200	51	45	46	48	44	45	46	45	45	49	51	55	55	55
250	48	45	44	46	42	45	49	44	44	47	48	51	51	51
315	47	41	43	46	40	45	50	42	42	44	44	49	49	49
400	42	38	40	44	39	43	48	40	39	41	42	47	47	47
500	43	39	39	43	40	41	42	40	38	41	41	46	46	46
630	42	37	36	39	36	39	39	40	38	42	42	47	47	47
800	40	34	35	37	37	38	38	40	39	43	43	47	47	47
1000	41	35	34	36	36	37	37	33	39	46	43	47	47	47
1250	41	36	34	36	37	37	37	40	39	45	41	46	46	46
1600	42	39	37	39	39	38	37	40	40	44	42	45	45	45
2000	40	40	36	38	40	38	37	38	39	46	41	44	44	44
2500	38	37	34	36	41	37	34	35	36	39	39	41	41	41
3150	35	28	28	33	34	33	33	34	33	36	36	39	39	39
4000	33	28	27	32	34	33	31	33	30	34	32	35	35	35
5000	31	25	27	33	34	33	31	32	29	32	31	35	35	35
6300	30	26	27	33	34	32	30	33	29	32	30	32	32	32
8000	28	26	28	31	33	32	31	33	30	35	32	31	31	31
10000	23	25	27	30	31	30	29	35	29	34	31	29	29	29
OVERALL	66	64	66	71	69	69	70	69	71	72	69	70	70	70

[illegible]

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
F-4 AIRCRAFT IN THE										TEMP = 59 F) OMEGA 8.2	
TEXAS ASE HUSH HOUSE										BAR PRESS =29.92 IN HG) TEST 9F-702-001	
GROUND RUNUP IN THE										REL HUMID = 70 %) RUN 01	
TEXAS ASE HUSH HOUSE										DELTA N = 0.0 DB) AIRCRAFT CODE 702	
) OPERATION CODE 00113	
) PROFILE VERSION A	
) 20 NOV 81	
) PAGE F3	

DISTANCE		ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	54.3	54.3	50.6	51.2	53.6	52.6	52.9	54.2	52.8	53.1	57.3	55.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0		
250	52.2	52.2	48.7	49.1	51.5	50.7	50.8	52.1	50.7	51.0	55.2	53.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9		
315	50.1	50.1	46.6	47.0	49.5	48.5	48.7	50.0	48.5	48.9	53.0	51.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8		
400	48.0	48.0	44.4	44.9	47.3	46.3	46.5	47.9	46.3	46.7	50.9	49.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6		
500	45.7	45.7	42.2	42.7	45.1	44.1	44.3	45.7	44.1	44.6	48.7	47.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4		
630	43.4	43.4	39.9	40.3	42.9	41.7	42.0	43.5	41.8	42.3	46.4	44.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1		
800	41.0	41.0	37.4	37.9	40.6	39.3	39.7	41.1	39.5	39.9	44.0	42.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7		
1000	38.6	38.6	34.9	35.4	38.3	36.8	37.2	38.7	37.0	37.5	41.5	39.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3		
1250	35.9	35.9	32.2	32.7	35.6	34.1	34.6	36.1	34.2	34.6	38.9	37.1	40.6	40.6	40.6	40.6	40.6	40.6	40.6		
1500	33.1	33.1	29.3	29.7	32.7	31.3	31.7	33.2	31.7	31.9	36.0	34.2	37.9	37.9	37.9	37.9	37.9	37.9	37.9		
2000	30.2	30.2	26.3	26.6	29.6	28.2	28.7	30.2	28.8	28.8	33.0	31.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0		
2500	27.0	27.0	22.9	23.1	26.1	24.8	25.3	26.7	25.5	25.5	29.7	27.9	31.8	31.8	31.8	31.8	31.8	31.8	31.8		
3150	23.5	23.5	19.3	19.3	22.3	21.1	21.6	22.9	22.1	21.8	26.2	24.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5		
4000	19.7	19.7	15.3	15.2	18.1	17.1	17.5	18.6	18.3	17.9	22.4	20.6	24.8	24.8	24.8	24.8	24.8	24.8	24.8		
5000	15.5	15.5	10.9	10.8	13.7	12.8	13.2	14.1	14.1	13.7	18.4	16.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8		
6300	11.1	11.1	6.3	6.3	9.2	8.2	8.6	9.5	9.7	9.2	14.0	12.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4		
8000	7.0	7.0	2.3	2.6	5.6	4.3	4.9	6.0	5.7	5.3	9.8	8.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4		
10000	2.8	2.8			2.1	.4	1.1	2.4	1.6	1.4	5.4	3.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1		
12500											1.0		3.5	3.5	3.5	3.5	3.5	3.5	3.5		
16000																					
20000																					
25000																					

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(F-4 AIRCRAFT IN THE)										TEMP = 59 F									
(TEXAS ASE HUSH HOUSE)										BAR PRESS =29.92 IN HG									
()										REL HUMID = 70 %									
(TEXAS ASE HUSH HOUSE)										DELTA N = 0.0 DB									
										ANGLE (DEGREES)									
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	54.3	54.3	50.8	52.1	53.6	54.1	52.9	55.2	52.8	53.1	58.8	55.6	53.0	59.0	59.0	59.0	59.0	59.0	59.0
250	52.2	52.2	48.7	50.1	51.5	52.0	50.8	53.1	50.7	51.0	56.7	53.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9
315	50.1	50.1	46.6	48.0	49.5	49.8	48.7	51.0	48.5	48.9	54.6	51.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8
400	48.0	48.0	44.4	45.8	47.3	47.6	46.5	48.9	46.3	46.7	52.4	49.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6
500	45.7	45.7	42.2	43.6	45.1	45.3	44.3	46.7	44.1	44.5	50.2	47.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4
630	43.4	43.4	39.9	41.3	42.9	43.0	42.0	44.5	41.8	42.3	47.9	44.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1
800	41.0	41.0	37.4	38.9	40.6	40.6	39.7	42.1	39.5	39.9	45.5	42.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7
1000	38.6	38.6	34.9	36.4	38.3	38.1	37.2	39.7	37.0	37.5	43.1	39.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3
1250	35.9	35.9	32.2	33.6	35.6	35.4	34.6	37.1	34.5	34.8	40.4	37.1	40.6	40.6	40.6	40.6	40.6	40.6	40.6
1600	33.1	33.1	29.3	30.7	32.7	32.5	31.7	34.2	31.7	31.9	37.6	34.2	37.9	37.9	37.9	37.9	37.9	37.9	37.9
2000	30.2	30.2	26.3	27.5	29.6	29.4	28.7	31.2	28.8	28.8	34.5	31.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2500	27.0	27.0	22.9	24.1	26.1	26.1	25.3	27.7	25.5	25.5	31.3	27.9	31.0	31.0	31.0	31.0	31.0	31.0	31.0
3150	23.5	23.5	19.3	20.3	22.3	22.4	21.6	23.9	22.1	21.8	27.8	24.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5
4000	19.7	19.7	15.3	15.9	18.1	18.1	17.5	19.4	18.3	17.9	23.7	20.6	24.8	24.8	24.8	24.8	24.8	24.8	24.8
5000	15.5	15.5	10.9	11.4	13.7	13.5	13.2	14.7	14.1	13.7	19.3	16.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8
6300	11.1	11.1	6.3	6.6	9.2	8.7	8.6	9.9	9.7	9.2	14.6	12.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4
8000	7.0	7.0	2.3	2.8	5.6	4.5	4.9	6.2	5.7	5.3	10.1	8.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4
10000	2.8	2.8			2.1	.4	1.1	2.4	1.6	1.4	5.4	3.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1
12500										1.0			3.5	3.5	3.5	3.5	3.5	3.5	3.5
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 F-4 AIRCRAFT IN THE
 TEXAS ASE HUSH HOUSE
 (OPERATION:
 (IDLE POWER (65% RPH)
 (SINGLE ENGINE
 (GROUND RUNUP IN THE
 (TEXAS ASE HUSH HOUSE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 IDENTIFICATION:
 OMEGA 0.2
 TEST BF-702-001
 RUN 01
 AIRCRAFT CODE 702
 OPERATION CODE 00113
 PROFILE VERSION A
 20 NOV 81
 PAGE J3

	P=PNLT											A=AL											T=ALT										
	-20	-10	0	10	20	30	40	50	60	70	80	-20	-10	0	10	20	30	40	50	60	70	80	-20	-10	0	10	20	30	40	50	60	70	80
ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA																																
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																					IDENTIFICATION:										
1/3 OCTAVE BAND																					OMEGA 8.2										
DISTANCE = 250 FEET																					TEST BF-702-001										
																					RUN 02										
NOISE SOURCE/SUBJECT:																					METEOROLOGY:										
F-4 AIRCRAFT IN THE																					TEMP = 59 F										
TEXAS ASE HUSH HOUSE																					BAR PRESS = 29.92 IN HG										
																					REL HUMID = 70 %										
																					20 NOV 81										
																					DELTA N = 0.0 DB										
																					PAGE C4										
BAND CENTER																					ANGLE (DEGREES)										
FREQ (HZ)																															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180												
50	72	69	67	66	68	70	71	73	73	72	68	71	69	71	71	71	71	71	71	71											
63	69	65	65	65	67	68	70	71	71	72	68	69	71	70	70	70	70	70	70	70											
80	70	68	65	63	65	67	67	68	68	67	71	71	70	69	69	69	69	69	69	69											
100	65	64	63	63	63	62	63	62	60	63	68	70	72	69	69	69	69	69	69	69											
125	63	63	62	61	60	60	57	59	57	63	67	67	70	67	67	67	67	67	67	67											
160	60	58	56	54	54	54	53	52	52	56	60	63	65	60	60	60	60	60	60	60											
200	55	49	50	51	51	51	48	46	45	50	51	54	58	55	55	55	55	55	55	55											
250	50	48	48	48	46	45	43	43	44	46	49	51	53	52	52	52	52	52	52	52											
315	54	49	51	53	49	45	43	46	45	45	46	49	52	50	50	50	50	50	50	50											
400	50	45	44	44	44	43	40	44	41	43	46	46	50	48	48	48	48	48	48	48											
500	50	48	46	44	46	49	45	47	43	44	46	47	49	49	49	49	49	49	49	49											
630	46	45	43	42	44	46	45	45	43	45	46	48	51	51	51	51	51	51	51	51											
800	44	41	40	39	41	43	44	45	42	45	46	48	52	53	53	53	53	53	53	53											
1000	42	41	39	38	40	42	41	43	38	41	44	46	48	52	52	52	52	52	52	52											
1250	45	44	42	40	42	43	41	41	38	41	42	45	48	53	53	53	53	53	53	53											
1600	45	43	41	39	40	41	40	41	37	40	41	44	46	53	53	53	53	53	53	53											
2000	45	45	43	42	42	42	39	39	37	39	42	44	45	51	51	51	51	51	51	51											
2500	44	45	43	42	42	42	39	39	36	39	41	41	41	47	47	47	47	47	47	47											
3150	35	38	35	33	34	34	34	36	34	35	35	36	38	43	43	43	43	43	43	43											
4000	33	32	31	30	31	32	32	35	33	34	33	35	35	39	39	39	39	39	39	39											
5000	35	33	31	30	31	33	32	36	34	34	32	34	34	36	38	38	38	38	38	38											
6300	35	33	31	29	31	34	32	36	35	34	32	32	32	35	35	35	35	35	35	35											
8000	33	33	31	29	30	32	32	35	35	35	33	32	31	34	34	34	34	34	34	34											
10000	30	28	28	27	28	30	30	33	32	33	31	31	29	32	32	32	32	32	32	32											
OVERALL	76	73	72	71	73	74	75	76	76	76	76	77	78	77	77	77	77	77	77	77											

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				IDENTIFICATIONS:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				OMEGA 8.2	
																				TEST 8F-702-001	
																				RUN 02	
NOISE SOURCE/SUBJECT:																				AIRCRAFT CODE 702	
F-4 AIRCRAFT IN THE																				OPERATION CODE 00110	
TEXAS ASE HUSH HOUSE																				PROFILE VERSION A	
																				20 NOV 81	
																				PAGE 04	
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	74.7	72.9	71.4	70.3	70.7	71.9	71.1	72.4	71.2	73.0	74.8	76.4	78.5	77.8	77.8	77.8	77.8	77.8	77.8		
250	72.4	70.6	69.1	67.9	68.3	69.5	68.6	69.9	68.7	70.5	72.4	74.0	76.1	75.4	75.4	75.4	75.4	75.4	75.4		
315	70.0	68.3	66.8	65.5	65.9	67.1	66.0	67.4	66.1	68.0	70.0	71.6	73.7	73.1	73.1	73.1	73.1	73.1	73.1		
400	67.5	65.8	64.3	62.9	63.4	64.6	63.5	64.8	63.5	65.4	67.5	69.2	71.3	70.6	70.6	70.6	70.6	70.6	70.6		
500	64.9	63.2	61.7	60.3	60.8	61.9	60.8	62.1	60.7	62.6	64.9	66.6	68.7	68.1	68.1	68.1	68.1	68.1	68.1		
630	62.3	60.5	58.8	57.5	57.9	59.1	57.9	59.2	57.8	59.8	62.2	63.9	66.1	65.6	65.6	65.6	65.6	65.6	65.6		
800	59.4	57.5	55.8	54.7	54.9	56.1	54.9	56.2	54.8	56.7	59.1	60.9	63.2	62.8	62.8	62.8	62.8	62.8	62.8		
1000	56.4	54.3	52.4	51.4	51.3	52.8	51.5	53.0	51.6	53.4	55.8	57.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9		
1250	52.2	50.4	48.6	47.6	47.5	48.4	46.9	48.6	46.9	49.4	51.9	53.8	56.2	56.5	56.6	56.6	56.6	56.6	56.6		
1600	47.8	46.1	44.1	43.0	42.9	44.4	41.8	43.7	41.5	44.1	46.9	49.1	51.8	53.0	53.0	53.0	53.0	53.0	53.0		
2000	43.3	41.0	39.1	38.1	37.8	39.0	36.4	38.3	34.4	38.1	41.4	43.7	46.7	48.5	48.5	48.5	48.5	48.5	48.5		
2500	37.8	35.1	31.8	30.5	31.4	33.8	29.2	32.3	25.7	31.5	34.2	37.8	41.5	43.4	43.4	43.4	43.4	43.4	43.4		
3150	30.2	26.0	21.8	20.5	21.9	26.3	18.3	22.4	14.7	19.2	25.6	30.6	35.0	37.2	37.2	37.2	37.2	37.2	37.2		
4000	20.7	16.0	8.4	10.5	9.5	15.1	7.7	13.4	3.7	10.8	13.6	17.8	27.6	30.3	30.3	30.3	30.3	30.3	30.3		
5000	7.5	6.1		.4		3.9		4.3		2.3	1.5	6.9	16.8	22.4	22.4	22.4	22.4	22.4	22.4		
6300													6.0	7.4	7.4	7.4	7.4	7.4	7.4		
8000																					
10000																					
12500																					
16000																					
20000																					
25000																					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN08)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-4 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
85% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 9F-702-001																			
RUN 02																			
AIRCRAFT CODE 702																			
OPERATION CODE 00118																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE E4																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.5	74.3	72.8	71.5	71.5	73.2	71.1	72.4	71.2	73.0	74.8	76.4	78.5	77.8	77.8	77.8	77.8	77.8	77.8
250	73.1	72.0	70.5	69.1	69.1	70.8	68.6	69.9	68.7	70.5	72.4	74.0	76.1	75.4	75.4	75.4	75.4	75.4	75.4
315	70.7	69.6	68.1	66.7	66.7	68.4	66.0	67.4	66.1	68.0	70.0	71.6	73.7	73.1	73.1	73.1	73.1	73.1	73.1
400	68.2	67.1	65.7	64.1	64.2	65.9	63.5	64.8	63.5	65.4	67.5	69.2	71.3	70.6	70.6	70.6	70.6	70.6	70.6
500	65.7	64.6	63.0	61.5	61.6	63.3	60.8	62.1	60.7	62.6	64.9	66.6	68.7	68.1	68.1	68.1	68.1	68.1	68.1
630	63.0	61.8	60.2	58.7	58.7	60.5	57.9	59.2	57.8	59.8	62.2	63.9	66.1	65.6	65.6	65.6	65.6	65.6	65.6
800	60.2	58.8	57.2	55.9	55.6	57.5	54.9	56.2	54.8	56.7	59.1	60.9	63.2	62.8	62.8	62.8	62.8	62.8	62.8
1000	57.1	55.6	53.8	52.6	52.1	54.2	51.5	53.0	51.6	53.4	55.8	57.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9
1250	53.0	51.8	50.0	48.8	48.3	49.7	46.9	48.6	46.9	49.4	51.9	53.8	56.2	56.5	56.6	56.6	56.6	56.6	56.6
1500	48.6	47.4	45.4	44.2	43.7	45.8	41.8	43.7	41.5	44.1	46.9	49.1	51.8	53.0	53.0	53.0	53.0	53.0	53.0
2000	44.0	42.3	40.5	39.3	38.6	41.2	36.4	38.3	34.4	38.1	41.4	43.7	46.7	48.5	48.5	48.5	48.5	48.5	48.5
2500	38.5	36.5	33.1	31.8	32.2	35.2	29.2	32.3	25.7	31.5	34.2	37.8	41.5	43.4	43.4	43.4	43.4	43.4	43.4
3150	30.9	27.3	23.2	21.7	22.6	27.7	18.3	22.4	14.7	19.2	25.6	30.6	35.0	37.2	37.2	37.2	37.2	37.2	37.2
4000	21.3	17.1	9.5	11.4	10.1	16.2	7.7	13.4	3.7	10.8	13.6	17.8	27.6	30.3	30.3	30.3	30.3	30.3	30.3
5000	8.0	6.9		1.2		4.7		4.3		2.3	1.5	6.9	16.8	22.4	22.4	22.4	22.4	22.4	22.4
6300													5.0	7.4	7.4	7.4	7.4	7.4	7.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
DISTANCE (FEET)	NOISE SOURCE/SUBJECT:										METEOROLOGY:							IDENTIFICATION:	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
	F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE																		
	(OPERATIONS:)																		
	(85% RPM)																		
	(SINGLE ENGINE)																		
	(GROUND RUNUP IN THE)																		
	(TEXAS ASE HUSH HOUSE)																		
	(TEMP = 59 F)																		
	(BAR PRESS = 29.92 IN HG)																		
	(REL HUMID = 70 %)																		
	(DELTA N = 0.0 DB)																		
	(PAGE F4)																		
200	59.9	58.3	57.1	56.2	56.5	57.3	56.0	56.9	55.3	57.3	59.5	61.0	63.2	64.1	64.1	64.1	64.1	64.1	64.1
250	57.8	56.3	55.0	54.1	54.4	55.2	53.9	54.9	53.2	55.2	57.5	59.0	61.2	62.0	62.0	62.0	62.0	62.0	62.0
315	55.8	54.2	52.9	52.0	52.3	53.1	51.8	52.8	51.1	53.2	55.4	56.9	59.1	59.9	59.9	59.9	59.9	59.9	59.9
400	53.7	52.0	50.8	49.9	50.2	51.0	49.7	50.6	49.0	51.0	53.4	54.8	57.0	57.7	57.7	57.7	57.7	57.7	57.7
500	51.5	49.8	48.6	47.6	48.0	48.8	47.6	48.5	46.9	48.9	51.2	52.6	54.9	55.6	55.6	55.6	55.6	55.6	55.6
630	49.2	47.5	46.3	45.5	45.7	46.5	45.4	46.3	44.7	46.6	48.9	50.4	52.6	53.3	53.3	53.3	53.3	53.3	53.3
808	46.9	45.2	44.0	43.1	43.4	44.3	43.1	44.0	42.5	44.3	46.6	48.0	50.2	50.9	50.9	50.9	50.9	50.9	50.9
1000	44.5	42.7	41.5	40.7	41.0	41.9	40.7	41.7	40.2	41.9	44.0	45.4	47.6	48.5	48.5	48.5	48.5	48.5	48.5
1250	41.8	39.9	38.7	37.9	38.3	39.3	38.2	39.2	37.6	39.3	41.2	42.7	44.9	45.9	45.9	45.9	45.9	45.9	45.9
1680	39.0	37.0	35.6	34.9	35.4	36.5	35.4	36.4	34.8	36.5	38.2	39.7	42.0	43.1	43.1	43.1	43.1	43.1	43.1
2000	35.9	33.9	32.7	31.8	32.4	33.6	32.3	33.4	31.7	33.3	35.1	36.6	38.9	40.2	40.2	40.2	40.2	40.2	40.2
2500	32.6	30.6	29.3	28.3	29.1	30.4	29.1	30.2	28.3	30.0	31.6	33.2	35.6	37.1	37.1	37.1	37.1	37.1	37.1
3150	28.9	26.9	25.5	24.4	25.5	26.9	25.5	26.7	24.6	26.3	27.8	29.5	32.1	33.7	33.7	33.7	33.7	33.7	33.7
4000	24.8	22.8	21.4	20.3	21.5	23.0	21.7	22.6	20.6	22.4	23.8	25.5	28.2	30.1	30.1	30.1	30.1	30.1	30.1
5000	20.4	18.5	17.0	15.8	17.2	18.8	17.5	18.6	16.3	18.2	19.6	21.4	24.2	26.1	26.1	26.1	26.1	26.1	26.1
6300	15.8	13.9	12.5	11.2	12.7	14.4	13.1	14.2	11.8	13.7	15.2	17.0	19.8	21.7	21.7	21.7	21.7	21.7	21.7
8000	12.2	10.2	8.8	7.6	9.0	10.7	9.5	10.6	8.4	10.2	11.6	13.3	16.1	17.5	17.5	17.5	17.5	17.5	17.5
10000	8.5	6.3	5.0	3.9	5.2	6.9	5.8	6.9	5.0	6.6	7.9	9.5	12.2	13.0	13.0	13.0	13.0	13.0	13.0
12500	4.7	2.5	1.2	.1	1.4	3.0	2.1	3.1	1.6	3.0	4.2	5.6	8.1	8.3	8.3				

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATIONS:	
F-4 AIRCRAFT IN THE										TEMP) OMEGA 8.2	
TEXAS ASE HUSH HOUSE										SINGLE ENGINE) TEST BF-702-001	
GROUND RUNUP IN THE										BAR PRESS = 29.92 IN HG) RUN 02	
TEXAS ASE HUSH HOUSE										REL HUMID = 70 %) AIRCRAFT CODE 702	
										DELTA N = 0.0 DB) OPERATION CODE 00116	
) PROFILE VERSION A	
) 20 NOV 81	
) PAGE 64	
DISTANCE																					
(FEET)																					
ANGLE (DEGREES)																					

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
) OMEGA 8.2
) TEST BF-702-001
) RUN 02
) AIRCRAFT CODE 702
) OPERATION CODE 00110
) PROFILE VERSION A
) 20 NOV 81
) PAGE J4

METEOROLOGY:
) TEMP = 59 F
) BAR PRESS = 29.92 IN HG
) REL HUMID = 70 %
) DELTA N = 0.0 DB

OPERATIONS:
) 95% RPM
) SINGLE ENGINE
) GROUND RUNUP IN THE
) TEXAS ASE HUSH HOUSE

P=PNLT

A=AL

T=ALT

	-20	-10	0	10	20	30	40	50	60	70	80
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
F-4 AIRCRAFT IN THE																		
TEXAS ASE HUSH HOUSE																		
OPERATION:																		
MILITARY POWER (96.8%)																		
SINGLE ENGINE																		
GROUND RUNUP IN THE																		
TEXAS ASE HUSH HOUSE																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS =29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = 0.0 DB																		
AIRCRAFT CODE 702																		
OPERATION CODE 00104																		
PROFILE VERSION A																		
20 NOV 81																		
PAGE C2																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	73	74	71	72	72	76	73	75	76	72	75	73	76	76	76	76	76	76
63	73	69	70	74	73	72	71	73	76	72	74	76	74	74	74	74	74	74
80	74	72	68	71	73	71	70	72	73	77	76	76	74	74	74	74	74	74
100	70	69	66	66	68	68	65	65	71	77	75	78	76	76	76	76	76	76
125	64	68	65	66	62	62	60	62	70	72	72	76	73	73	73	73	73	73
160	64	64	61	59	61	59	56	58	64	65	68	71	67	67	67	67	67	67
200	62	58	60	56	58	56	52	55	61	59	62	64	64	64	64	64	64	64
250	57	59	61	57	54	55	52	55	54	56	59	60	60	60	60	60	60	60
315	60	60	59	58	50	52	53	55	53	55	57	57	56	58	58	58	58	58
400	61	59	61	56	53	54	54	57	53	53	56	57	56	56	56	56	56	56
500	62	60	59	55	60	61	57	58	54	57	57	59	60	60	60	60	60	60
630	59	56	55	52	55	57	55	57	57	56	59	60	62	62	62	62	62	62
800	54	54	52	52	53	54	52	56	57	55	59	61	64	64	64	64	64	64
1000	52	55	53	51	53	52	52	53	54	52	56	57	60	60	60	60	60	60
1250	55	56	54	50	55	53	50	53	50	51	55	58	60	60	60	60	60	60
1600	52	53	50	47	52	49	49	54	47	48	54	56	60	60	60	60	60	60
2000	48	50	48	46	46	47	48	54	46	47	53	54	58	58	58	58	58	58
2500	46	47	46	44	44	45	45	50	44	45	49	50	51	51	51	51	51	51
3150	44	43	43	42	43	46	43	50	42	44	46	47	49	49	49	49	49	49
4000	42	40	40	40	39	40	45	41	42	44	44	43	45	45	45	45	45	45
5000	40	37	37	38	37	38	45	41	41	40	44	42	44	44	44	44	44	44
6000	40	37	35	36	34	36	46	41	39	40	45	40	42	42	42	42	42	42
8000	37	35	32	33	33	34	44	48	39	38	43	39	41	41	41	41	41	41
10000	36	32	29	31	32	31	43	48	36	38	42	36	37	37	37	37	37	37
OVERALL	79	78	76	76	78	79	79	73	81	82	82	84	82	82	82	82	82	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-4 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
MILITARY POWER (98.8%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 9F-702-001																			
RUN 03																			
AIRCRAFT CODE 702																			
OPERATION CODE 00104																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE D2																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.3	80.0	79.2	77.9	78.7	79.1	79.5	77.6	81.8	80.6	83.3	84.1	86.4	85.7	85.7	85.7	85.7	85.7	85.7
250	78.9	77.7	76.9	75.5	76.4	76.8	77.1	75.4	79.5	78.3	80.9	81.7	84.1	83.3	83.3	83.3	83.3	83.3	83.3
315	76.6	75.5	74.7	73.2	74.2	74.6	74.7	73.1	77.1	75.9	78.5	79.3	81.7	80.9	80.9	80.9	80.9	80.9	80.9
400	74.3	73.2	72.4	70.8	71.9	72.3	72.3	70.7	74.7	73.5	76.1	76.9	79.3	78.5	78.5	78.5	78.5	78.5	78.5
500	71.9	70.8	70.1	68.3	69.5	69.9	69.8	68.4	72.1	70.9	73.6	74.4	76.8	76.1	76.1	76.1	76.1	76.1	76.1
630	69.4	68.4	67.0	65.7	67.1	67.5	67.2	65.8	69.5	68.2	71.0	71.8	74.2	73.5	73.5	73.5	73.5	73.5	73.5
800	66.9	65.8	65.1	62.8	64.5	64.9	64.5	63.2	66.8	65.3	68.1	69.0	71.4	70.7	70.7	70.7	70.7	70.7	70.7
1000	64.2	63.1	62.4	59.9	61.8	62.2	61.5	60.4	63.8	62.2	64.9	65.8	68.3	67.9	67.9	67.9	67.9	67.9	67.9
1250	61.3	60.2	59.4	56.5	58.8	59.2	58.3	57.3	60.5	58.9	61.3	62.4	64.9	65.0	65.0	65.0	65.0	65.0	65.0
1600	58.0	56.9	56.2	53.0	55.6	55.9	54.8	53.9	57.0	55.1	57.2	58.6	61.1	61.5	61.6	61.6	61.6	61.6	61.6
2000	54.6	53.3	52.7	49.1	52.0	52.3	50.8	50.2	52.8	51.0	52.7	54.4	56.9	58.0	58.0	58.0	58.0	58.0	58.0
2500	50.5	49.1	48.0	44.4	47.9	48.3	46.4	45.7	47.9	46.4	47.0	50.0	52.3	54.0	54.0	54.0	54.0	54.0	54.0
3150	45.6	44.1	42.7	38.7	42.3	42.8	40.3	40.2	42.1	41.2	41.7	45.1	47.4	49.5	49.6	49.6	49.6	49.6	49.6
4000	39.3	37.9	37.1	32.0	36.6	37.0	34.6	34.5	36.9	34.4	35.1	39.2	41.6	43.9	43.9	43.9	43.9	43.9	43.9
5000	32.9	31.8	29.9	23.4	30.3	30.9	28.6	27.2	30.2	27.4	25.8	32.1	35.6	38.1	38.1	38.1	38.1	38.1	38.1
6300	25.8	23.5	21.4	10.1	21.6	23.6	17.8	18.3	18.9	19.6	16.2	23.9	27.6	32.0	32.0	32.0	32.0	32.0	32.0
8000	17.7	14.2	11.5		12.8	15.4	7.7	9.6	10.1	10.7	6.6	14.1	18.3	24.9	24.9	24.9	24.9	24.9	24.9
10000	10.1	4.8	1.6		4.0	7.8		.8	1.3	1.9		4.3	9.3	15.7	15.7	15.7	15.7	15.7	15.7
12500	2.5				.2							.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-4 AIRCRAFT IN THE																			
TEXAS A&E HUSH HOUSE																			
TEXAS A&E HUSH HOUSE																			
OPERATIONS:																			
MILITARY POWER (38.8%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS A&E HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
AIRCRAFT CODE 702																			
OPERATION CODE 00104																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE E2																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST BF-702-001																			
RUN 03																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
200	82.4	80.0	79.2	77.9	80.0	80.7	80.6	78.8	81.8	80.6	83.3	84.1	86.4	85.7	85.7	85.7	85.7	85.7	85.7
250	80.0	77.7	76.9	75.5	77.8	78.4	78.2	76.5	79.5	78.3	80.9	81.7	84.1	83.3	83.3	83.3	83.3	83.3	83.3
315	77.6	75.5	74.7	73.2	75.5	76.2	75.8	74.2	77.1	75.9	78.5	79.3	81.7	80.9	80.9	80.9	80.9	80.9	80.9
400	75.3	73.2	72.4	70.8	73.2	73.9	73.3	71.9	74.7	73.5	76.1	76.9	79.3	78.5	78.5	78.5	78.5	78.5	78.5
500	73.0	70.8	70.1	68.3	70.8	71.5	70.9	69.5	72.1	70.9	73.6	74.4	76.8	76.1	76.1	76.1	76.1	76.1	76.1
630	70.5	68.4	67.6	65.7	68.4	69.0	68.3	67.0	69.5	68.2	71.0	71.8	74.2	73.5	73.5	73.5	73.5	73.5	73.5
800	68.0	65.8	65.1	62.8	65.8	66.5	65.5	64.4	66.8	65.3	68.1	69.0	71.4	70.7	70.7	70.7	70.7	70.7	70.7
1000	65.3	63.1	62.4	59.9	63.1	63.8	62.5	61.5	63.8	62.2	64.9	65.8	68.3	67.9	67.9	67.9	67.9	67.9	67.9
1250	62.4	60.2	59.4	56.5	60.1	60.8	59.4	58.5	60.5	58.9	61.3	62.4	64.9	65.0	65.0	65.0	65.0	65.0	65.0
1600	59.1	56.9	56.2	53.0	56.9	57.5	55.9	55.0	57.0	55.1	57.2	58.6	61.1	61.6	61.6	61.6	61.6	61.6	61.6
2000	55.6	53.3	52.7	49.1	53.3	53.9	51.9	51.4	52.8	51.0	52.7	54.4	56.9	58.0	58.0	58.0	58.0	58.0	58.0
2500	51.6	49.1	48.0	44.4	49.2	49.8	47.4	46.8	47.9	46.4	47.0	50.0	52.3	54.0	54.0	54.0	54.0	54.0	54.0
3150	46.7	44.1	42.7	38.7	43.6	44.4	41.4	41.4	42.1	41.2	41.7	45.1	47.4	49.6	49.6	49.6	49.6	49.6	49.6
4000	40.2	37.9	37.1	32.0	37.7	38.3	35.4	35.4	36.9	34.4	35.1	39.2	41.6	43.9	43.9	43.9	43.9	43.9	43.9
5000	33.5	31.8	29.9	23.4	31.1	31.9	29.2	27.9	30.2	27.4	25.8	32.1	35.6	38.1	38.1	38.1	38.1	38.1	38.1
6300	26.3	23.5	21.4	10.1	22.1	24.3	18.2	18.8	18.9	19.6	16.2	23.9	27.6	32.0	32.0	32.0	32.0	32.0	32.0
8000	18.0	14.2	11.5	13.0	15.8	7.9	9.8	9.8	10.1	10.7	6.6	14.1	18.3	24.9	24.9	24.9	24.9	24.9	24.9
10000	10.1	4.8	1.6	4.0	7.8	.2	.8	.8	1.3	1.9	4.3	9.3	15.7	15.7	15.7	15.7	15.7	15.7	15.7
12500	2.5											.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																	IDENTIFICATIONS:		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	) OMEGA 8.2		
																	) TEST BF-702-001		
																	) RUN 03		
NOISE SOURCE/SUBJECT:																	) AIRCRAFT CODE 702		
(F-4 AIRCRAFT IN THE																	) OPERATION CODE 00104		
(TEXAS ASE HUSH HOUSE																	) PROFILE VERSION A		
(																	) 20 NOV 81		
(TEXAS ASE HUSH HOUSE																	) PAGE F2		
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.0	67.2	66.3	63.9	65.0	66.0	65.6	64.4	67.4	65.9	66.0	60.8	71.0	72.2	72.2	72.2	72.2	72.2	72.2
250	65.8	65.1	64.2	61.9	63.7	64.0	63.5	62.3	65.2	63.9	64.8	66.7	66.9	70.1	70.1	70.1	70.1	70.1	70.1
315	63.7	63.1	62.1	59.8	61.7	61.9	61.4	60.3	63.0	61.8	62.7	64.6	66.8	68.0	68.0	68.0	68.0	68.0	68.0
400	61.6	60.9	60.0	57.7	59.6	59.8	59.2	58.1	60.8	59.7	60.6	62.5	64.7	65.9	65.9	65.9	65.9	65.9	65.9
500	59.4	58.8	57.9	55.5	57.4	57.7	57.0	56.0	58.5	57.5	58.5	60.3	62.5	63.7	63.7	63.7	63.7	63.7	63.7
630	57.2	56.6	55.7	53.3	55.2	55.5	54.7	53.8	56.2	55.3	56.2	58.1	60.3	61.4	61.4	61.4	61.4	61.4	61.4
800	55.0	54.3	53.4	51.0	53.0	53.2	52.4	51.5	53.8	53.0	53.9	55.7	57.9	59.1	59.1	59.1	59.1	59.1	59.1
1000	52.7	51.9	51.1	48.6	50.7	50.9	50.1	49.2	51.4	50.6	51.4	53.3	55.4	56.7	56.7	56.7	56.7	56.7	56.7
1250	50.3	49.4	48.6	46.0	48.3	48.5	47.6	46.8	48.8	46.1	48.7	50.7	52.8	54.2	54.2	54.2	54.2	54.2	54.2
1600	47.7	46.8	46.0	43.3	45.7	46.0	45.0	44.3	46.2	45.4	45.8	48.0	50.0	51.6	51.6	51.6	51.6	51.6	51.6
2000	45.1	44.1	43.4	40.5	43.1	43.3	42.2	41.7	43.4	42.5	42.8	45.1	47.1	48.9	48.9	48.9	48.9	48.9	48.9
2500	42.1	41.1	40.3	37.4	40.1	40.5	39.3	38.6	40.4	39.5	39.6	42.1	44.0	46.0	46.0	46.0	46.0	46.0	46.0
3150	36.7	37.7	36.8	34.0	36.8	37.3	36.1	35.6	37.1	36.3	36.1	38.8	40.7	42.8	42.8	42.8	42.8	42.8	42.8
4000	35.0	36.0	33.0	30.2	33.1	33.7	32.5	32.1	33.4	32.7	32.3	35.2	37.0	39.4	39.4	39.4	39.4	39.4	39.4
5000	30.6	29.6	26.8	26.0	28.9	29.6	28.5	28.0	29.3	28.8	28.2	31.2	33.0	35.4	35.4	35.4	35.4	35.4	35.4
6300	26.4	25.5	24.4	21.6	24.5	25.3	24.2	23.7	24.9	24.5	23.9	26.9	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	22.7	21.6	20.6	17.9	20.8	21.6	20.3	20.0	21.0	20.8	20.3	23.0	24.8	27.1	27.1	27.1	27.1	27.1	27.1
10000	18.8	17.5	16.7	13.9	16.7	17.6	16.1	15.0	16.8	16.7	16.4	18.8	20.7	22.7	22.7	22.7	22.7	22.7	22.7
12500	14.6	13.2	12.4	9.6	12.5	13.2	11.7	11.6	12.3	12.4	12.4	14.4	16.3	18.0	18.0	18.0	18.0	18.0	18.0
16000	10.1	8.5	7.9	5.2	7.9	8.6	6.9	6.9	7.5	7.6	8.3	9.8	11.7	12.9	12.9	12.9	12.9	12.9	12.9
20000	5.4	3.8	3.0	.6	3.1	3.7	2.1	2.0	2.6	3.4	4.3	5.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5
25000	.5									.6	.9	3.1	3.1	2.4	2.4	2.4	2.4	2.4	2.4

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-4 AIRCRAFT IN THE																			
TEXAS A&E HUSH HOUSE																			
(OPERATIONS)																			
(MI-TARY POWER (98.8%))																			
(SINGLE ENGINE)																			
(GROUND RUNUP IN THE)																			
(TEXAS A&E HUSH HOUSE)																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS =29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = 0.0 DB)																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	68.9	67.2	66.3	63.9	67.1	67.6	66.7	65.6	67.4	65.9	66.8	68.8	71.0	72.2	72.2	72.2	72.2	72.2	72.2
250	66.8	65.1	64.2	61.9	65.1	65.6	64.5	63.5	65.2	63.9	64.8	66.7	68.9	70.1	70.1	70.1	70.1	70.1	70.1
315	64.8	63.1	62.1	59.6	63.0	63.5	62.4	61.4	63.0	61.8	62.7	64.6	66.8	68.0	68.0	68.0	68.0	68.0	68.0
400	62.7	60.9	60.0	57.7	60.9	61.4	60.2	59.3	60.6	59.7	60.6	62.5	64.7	65.9	65.9	65.9	65.9	65.9	65.9
500	60.5	58.8	57.9	55.5	58.7	59.2	58.0	57.1	58.5	57.5	58.5	60.3	62.5	63.7	63.7	63.7	63.7	63.7	63.7
630	58.3	56.6	55.7	53.3	56.5	57.1	55.8	54.9	56.2	55.3	56.2	58.1	60.3	61.4	61.4	61.4	61.4	61.4	61.4
800	56.1	54.3	53.4	51.0	54.3	54.8	53.5	52.7	53.8	53.0	53.9	55.7	57.9	59.1	59.1	59.1	59.1	59.1	59.1
1000	53.8	51.9	51.1	48.6	52.0	52.5	51.1	50.4	51.4	50.6	51.4	53.3	55.4	56.7	56.7	56.7	56.7	56.7	56.7
1250	51.3	49.4	48.6	46.0	49.6	50.1	48.6	48.0	48.8	48.1	48.7	50.7	52.8	54.2	54.2	54.2	54.2	54.2	54.2
1500	48.8	46.8	46.0	43.3	47.0	47.5	46.0	45.5	46.2	45.4	45.8	48.0	50.0	51.5	51.5	51.5	51.5	51.5	51.5
2000	46.2	44.1	43.4	40.5	44.4	44.9	43.3	42.6	43.4	42.5	42.8	45.1	47.1	48.9	48.9	48.9	48.9	48.9	48.9
2500	43.2	41.1	40.3	37.4	41.4	42.1	40.4	40.0	40.4	39.5	39.6	42.1	44.0	45.9	45.9	45.9	45.9	45.9	45.9
3150	39.8	37.7	36.8	34.0	38.1	38.9	37.1	36.8	37.1	36.3	36.1	38.9	40.7	42.3	42.3	42.3	42.3	42.3	42.3
4000	35.8	34.0	33.0	30.2	34.1	34.9	33.4	33.0	33.4	32.7	32.3	35.2	37.0	39.4	39.4	39.4	39.4	39.4	39.4
5000	31.4	29.8	28.8	26.0	29.7	30.6	29.1	28.7	29.3	28.6	28.2	31.2	33.0	35.4	35.4	35.4	35.4	35.4	35.4
6300	26.8	25.5	24.4	21.6	25.1	25.9	24.6	24.2	24.9	24.5	23.9	26.9	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	22.9	21.6	20.6	17.9	21.0	21.9	20.5	20.2	21.0	20.8	20.3	23.0	24.8	27.1	27.1	27.1	27.1	27.1	27.1
10000	18.8	17.5	16.7	13.9	16.7	17.6	16.1	16.0	16.6	16.1	16.4	18.6	20.7	22.7	22.7	22.7	22.7	22.7	22.7
12500	14.6	13.2	12.4	9.6	12.5	13.2	11.7	11.6	12.3	12.4	12.4	14.4	16.3	18.0	18.0	18.0	18.0	18.0	18.0
16000	10.1	8.5	7.9	5.2	7.9	8.6	6.9	6.9	7.5	7.8	8.3	9.8	11.7	12.9	12.9	12.9	12.9	12.9	12.9
20000	5.4	3.8	3.0	.6	3.1	3.7	2.1	2.0	2.6	3.4	4.3	5.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5
25000	.5										.6	.9	3.1	2.4	2.4	2.4	2.4	2.4	2.4

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE

OPERATION:

MILITARY POWER (96.8%)

SINGLE ENGINE

GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 9F-702-001

RUN 03

AIRCRAFT CODE 702

OPERATION CODE 00104

PROFILE VERSION A

20 NOV 81

PAGE J2

	P=PNLT											A=AL	I=ALT											
	-10	0	10	20	30	40	50	60	70	80	90		-10	0	10	20	30	40	50	60	70	80	90	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	) IDENTIFICATION:		
1/3 OCTAVE BAND																	) OMEGA 8.2		
DISTANCE = 250 FEET																	) TEST BF-702-001		
																	) RUN 04		
NOISE SOURCE/SUBJECT:																	) METEOROLOGY:		
(F-4 AIRCRAFT IN THE																	) TEMP = 39 F		
(TEXAS ASE HUSH HOUSE																	) BAR PRESS = 29.32 IN HG		
																	) REL HUMID = 70 %		
																	) DELTA N = 0.0 JB		
																	) PAGE C1		
BAND CENTER																	ANGLE (DEGREES)		
FREQ (HZ)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	73	78	79	79	84	82	88	91	89	90	84	88	88	91	90	92	91	91	92
63	76	74	74	76	79	79	82	84	82	84	83	84	86	85	82	84	85	85	85
80	77	73	71	74	75	79	78	80	73	79	84	84	84	83	80	83	83	80	77
100	77	73	74	73	74	74	72	74	73	78	85	84	86	87	84	79	87	77	74
125	73	74	71	71	73	74	69	72	72	78	83	84	83	84	81	78	84	75	74
160	70	70	68	66	68	64	67	68	67	74	75	79	83	79	75	72	79	67	66
200	66	67	63	66	64	64	62	66	64	69	69	73	74	77	72	70	77	64	63
250	63	68	65	64	62	60	62	63	62	67	67	69	70	71	72	70	71	67	64
315	68	67	69	62	63	59	62	63	60	64	65	66	64	67	68	71	67	69	63
400	67	63	67	61	64	60	62	65	61	64	65	68	63	67	66	70	67	68	63
500	68	66	64	62	64	66	65	66	61	63	65	67	68	68	68	70	68	68	62
630	66	64	62	61	64	65	65	65	63	65	64	68	69	69	69	72	69	69	64
800	65	60	60	58	62	63	65	62	64	65	64	68	68	68	70	72	68	67	64
1000	64	59	58	57	60	62	61	62	59	60	60	65	65	65	67	68	65	66	61
1250	65	63	62	58	62	63	61	61	57	60	59	64	65	66	67	70	66	68	62
1600	63	60	58	56	60	58	60	61	56	57	57	63	63	67	68	69	67	64	60
2000	65	57	56	56	58	55	59	61	56	55	55	61	61	64	64	64	64	61	59
2500	59	51	52	53	56	53	57	58	54	53	52	56	57	57	59	62	57	59	57
3150	60	45	45	50	53	51	56	57	54	53	51	56	54	55	56	60	55	56	55
4000	53	43	43	48	52	46	54	57	53	51	48	53	50	52	53	57	52	52	53
5000	46	44	43	47	53	46	54	57	53	52	47	52	51	52	51	58	52	50	52
6300	44	44	42	45	53	45	55	57	53	50	46	49	48	50	49	53	50	49	52
8000	41	41	41	44	51	43	52	55	51	50	45	47	43	48	48	53	48	49	51
10000	38	38	37	40	50	40	51	54	49	47	44	44	45	45	44	50	45	45	50
OVERALL	85	83	83	83	86	86	89	92	91	92	91	92	94	95	92	94	95	93	93

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-4 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
AFTERBURNER PWR (96.8%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 8F-702-001																			
AIRCRAFT CODE 702																			
OPERATION CODE 00103																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE 01																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.5	86.4	85.9	85.3	88.4	87.1	90.7	93.7	91.1	92.5	92.6	94.6	96.9	96.0	94.7	96.5	96.0	94.0	93.1
250	88.2	84.0	83.6	82.9	85.9	84.7	88.2	91.5	88.6	90.1	90.4	92.5	94.6	93.9	92.4	94.3	93.9	91.8	90.9
315	85.9	81.7	81.4	80.5	83.4	82.3	85.6	88.9	86.0	87.5	88.2	90.3	92.6	91.7	90.0	91.9	91.7	89.3	88.5
400	83.6	79.3	79.1	78.1	80.8	79.9	83.0	86.2	83.3	84.4	86.0	88.0	90.4	89.5	87.7	89.3	89.5	86.7	85.8
500	81.2	77.0	76.8	75.6	78.2	77.4	80.3	83.5	80.6	82.2	83.6	85.5	88.1	87.2	85.2	86.7	87.2	84.1	83.1
630	78.7	74.5	74.3	73.0	75.6	74.9	77.6	80.8	77.8	79.4	81.0	82.7	85.5	84.7	82.6	84.0	84.7	81.4	80.4
800	76.1	72.0	71.8	70.3	72.9	72.2	74.8	77.9	75.0	76.6	78.2	79.9	82.6	81.8	79.8	81.3	81.8	78.6	77.5
1000	73.4	69.3	69.2	67.5	70.1	69.2	71.9	75.0	72.1	73.7	75.0	76.8	79.5	78.7	76.8	78.4	78.7	75.8	74.6
1250	70.4	66.5	66.3	64.4	67.1	66.5	68.8	72.0	69.0	70.6	71.6	73.5	76.1	75.4	73.5	75.4	75.4	72.8	71.6
1600	67.2	63.5	63.2	61.2	63.9	63.5	65.5	68.7	65.7	67.4	67.9	69.9	72.5	71.7	70.3	72.2	71.7	69.6	68.3
2000	63.6	60.1	60.0	57.6	60.4	60.1	61.4	64.6	61.5	63.3	63.7	66.0	68.4	67.7	66.8	68.3	67.7	65.5	64.2
2500	59.6	56.3	55.8	53.5	56.3	56.2	57.3	59.8	56.8	58.5	59.0	62.0	63.9	63.3	63.0	64.4	63.3	61.3	59.4
3150	55.3	51.8	51.0	48.4	51.7	51.8	52.7	54.7	51.1	53.6	53.5	57.7	58.7	59.0	58.5	60.3	59.0	57.2	53.9
4000	50.0	46.3	45.1	42.5	46.0	46.4	47.0	49.0	45.5	48.2	47.8	52.6	53.4	54.0	53.6	55.6	54.0	52.1	47.4
5000	43.7	40.2	39.0	35.6	39.4	39.8	40.8	42.6	38.9	41.7	41.5	47.0	47.5	48.2	47.9	50.6	48.2	46.3	40.8
6300	37.9	33.9	32.9	28.3	33.0	33.8	34.3	35.9	32.8	33.4	33.6	40.1	40.5	41.4	41.6	43.9	41.4	39.9	33.9
8000	32.3	27.7	26.6	18.6	26.1	28.1	28.1	29.8	24.6	26.2	27.5	33.6	35.2	35.8	35.3	38.5	35.8	34.3	26.3
10000	24.8	18.3	17.2	11.1	16.6	19.5	19.0	21.9	16.3	19.4	18.1	27.0	28.6	29.2	29.1	32.2	29.2	28.8	17.4
12500	14.9	9.8	7.3	3.6	7.1	11.3	10.0	12.6	7.9	6.6	7.8	17.0	19.2	18.5	18.5	23.6	18.5	18.8	8.0
16000	5.0	1.3			3.2	1.0	3.3					7.0	6.7	7.8	6.8	14.0	7.8	9.5	
20000																4.3			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:																					
F-4 AIRCRAFT IN THE																					
TEXAS ASE HUSH HOUSE																					
OPERATION:																					
AFTERBURNER PMR (90.0%)																					
SINGLE ENGINE																					
GROUND RUNUP IN THE																					
TEXAS ASE HUSH HOUSE																					
METEOROLOGY:																					
TEMP = 59 F																					
BAR PRESS = 29.92 IN HG																					
REL HUMID = 70 %																					
DELTA N = 0.0 DB																					
IDENTIFICATION:																					
OMEGA 0.2																					
TEST 8F-702-001																					
RUN 04																					
AIRCRAFT CODE 702																					
OPERATION CODE 00103																					
PROFILE VERSION A																					
20 NOV 81																					
PAGE E1																					
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
200	91.8	87.5	87.2	85.3	88.4	88.2	90.7	93.7	92.2	92.5	92.6	94.6	97.6	96.6	95.3	96.5	96.6	95.1	93.1		
250	89.6	85.2	85.0	82.9	85.9	85.8	88.2	91.5	89.6	90.1	90.4	92.5	95.5	94.4	93.0	94.3	94.4	92.9	90.9		
315	87.3	82.9	82.7	80.5	83.4	83.4	85.6	88.9	87.0	87.5	88.2	90.3	93.3	92.3	90.5	91.9	92.3	90.4	88.5		
400	85.0	80.5	80.4	78.1	80.8	81.0	83.0	86.2	84.4	84.9	86.0	88.0	91.1	90.0	88.2	89.3	90.0	87.8	85.8		
500	82.6	78.1	78.1	75.6	78.2	78.5	80.3	83.5	81.7	82.2	83.6	85.5	88.8	87.7	85.8	86.7	87.7	85.2	83.1		
630	80.1	75.7	75.7	73.0	75.6	75.9	77.6	80.8	78.9	79.4	81.0	82.7	86.2	85.2	83.2	84.0	85.2	82.5	80.4		
800	77.5	73.1	73.2	70.3	72.9	73.3	74.8	77.9	76.1	76.6	78.2	79.9	83.3	82.4	80.4	81.3	82.4	79.7	77.5		
1000	74.7	70.5	70.5	67.5	70.1	70.6	71.9	75.0	73.2	73.7	75.0	76.8	80.2	79.3	77.4	78.4	79.3	76.9	74.6		
1250	71.8	67.7	67.6	64.4	67.1	67.6	68.8	72.0	70.1	70.6	71.6	73.5	76.8	75.9	74.1	75.4	75.9	73.9	71.6		
1500	68.6	64.6	64.6	61.2	63.9	64.6	65.5	68.7	66.8	67.4	67.9	69.9	73.2	72.3	70.9	72.2	72.3	70.7	68.3		
2000	65.0	61.2	61.3	57.6	60.4	61.2	61.4	64.6	62.5	63.3	63.7	66.0	69.1	68.2	67.4	68.3	68.2	66.7	64.2		
2500	61.0	57.5	57.1	53.5	56.3	57.3	57.3	59.8	57.6	58.5	59.0	62.0	64.6	63.9	63.5	64.4	63.9	62.4	59.4		
3150	56.6	53.0	52.3	48.4	51.7	52.9	52.7	54.7	52.1	53.6	53.5	57.7	59.4	59.5	59.1	60.3	59.5	58.3	53.9		
4000	51.1	47.3	46.1	42.5	46.0	47.3	47.0	49.0	46.3	48.2	47.8	52.6	54.0	54.4	54.0	55.6	54.4	53.0	47.4		
5000	44.6	40.9	39.8	35.6	39.4	40.5	40.8	42.6	39.5	41.7	41.5	47.0	48.0	48.5	48.2	50.6	48.5	46.9	40.8		
6300	38.4	34.4	33.4	28.3	33.0	34.2	34.3	35.9	32.5	33.4	33.6	40.1	40.8	41.6	41.8	43.9	41.6	40.3	33.9		
8000	32.5	28.0	26.9	18.6	26.1	28.3	28.1	29.8	24.8	28.2	27.5	33.6	35.3	35.3	35.4	38.5	35.9	34.5	26.9		
10000	24.6	18.3	17.2	11.1	16.6	19.5	19.0	21.9	16.3	19.4	18.1	27.0	28.6	29.2	29.1	32.2	29.2	28.0	17.4		
12500	14.9	9.8	7.3	3.6	7.1	11.3	10.0	12.6	7.3	8.6	7.8	17.0	19.2	18.5	18.5	23.6	18.5	18.8	6.0		
16000	5.0	1.3				3.2	1.0	3.3				7.0	6.7	7.8	6.8	14.0	7.8	9.5			
20000																4.3					
25000																					

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
F-4 AIRCRAFT IN THE										TEMP = 59 F									
TEXAS ASE HUSH HOUSE										BAR PRESS =29.92 IN HG									
										REL HUMID = 70 %									
										DELTA N = 0.0 DB									

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
(F-4 AIRCRAFT IN THE)										(TEMP = 59 F)										(OMEGA 8.2)	
(TEXAS ASE HUSH HOUSE)										(BAR PRESS =29.92 IN HG)										(TEST 9F-702-001)	
(GROUND RUNUP IN THE)										(REL HUMID = 70 %)										(RUN 04)	
(TEXAS ASE HUSH HOUSE)										(DELTA N = 0.0 DB)										(AIRCRAFT CODE 702)	
																				(OPERATION CODE 00103)	
																				(PROFILE VERSION A)	
																				(20 NOV 61)	
																				(PAGE 61)	

ANGLE (DEGREES)																					

(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
(FEET)																					
200	70.1	74.7	74.3	70.9	73.5	74.5	74.2	75.6	73.7	74.6	75.8	78.7	81.0	80.4	80.1	81.1	80.4	79.0	74.4		
250	76.0	72.7	72.2	68.8	71.4	72.5	72.1	73.5	71.8	72.5	73.7	76.6	79.0	78.3	78.0	79.0	78.3	76.9	72.3		
315	73.9	70.6	70.1	66.7	69.3	70.4	70.0	71.3	69.5	70.5	71.7	74.5	76.9	76.3	75.9	76.9	76.3	74.8	70.2		
400	71.7	68.5	68.0	64.5	67.1	68.3	67.8	69.2	67.3	68.4	69.6	72.4	74.8	74.1	73.8	74.7	74.1	72.7	68.0		
500	69.5	66.3	65.9	62.4	64.9	66.1	65.6	66.9	65.1	66.2	67.5	70.3	72.6	72.0	71.6	72.5	72.0	70.6	65.8		
630	67.3	64.1	63.7	60.1	62.7	63.9	63.4	64.7	62.9	63.9	65.2	68.0	70.3	69.7	69.4	70.3	69.7	68.4	63.6		
800	65.0	61.8	61.4	57.8	60.4	61.7	61.1	62.4	60.6	61.6	62.8	65.6	67.8	67.3	67.0	68.0	67.3	66.1	61.3		
1000	62.6	59.4	59.1	55.3	58.0	59.3	58.7	60.0	58.3	59.2	60.3	63.2	65.3	64.8	64.6	65.7	64.8	63.8	59.0		
1250	60.0	56.9	56.6	52.8	55.5	56.9	56.3	57.5	55.8	56.7	57.6	60.6	62.5	62.2	62.1	63.2	62.2	61.4	56.6		
1600	57.4	54.2	54.0	50.1	52.9	54.3	53.7	55.0	53.2	54.1	54.7	57.8	59.7	59.4	59.5	60.7	59.4	58.8	54.0		
2000	54.7	51.5	51.3	47.3	50.1	51.7	51.0	52.2	50.4	51.3	51.7	55.0	56.6	56.5	56.7	58.0	56.5	56.1	51.2		
2500	51.7	48.5	48.2	44.2	47.1	48.6	48.1	49.2	47.4	48.2	48.4	51.9	53.3	53.4	53.7	55.0	53.4	53.1	48.1		
3150	48.4	45.1	44.7	40.8	43.8	45.7	44.9	45.9	44.2	44.9	44.8	48.5	49.8	50.0	50.4	51.9	50.0	49.9	44.7		
4000	44.4	41.2	40.7	37.1	40.2	42.0	41.3	42.2	40.4	41.2	40.9	44.9	45.9	46.1	46.7	48.4	46.1	46.1	41.1		
5000	40.8	36.9	36.2	33.0	36.1	37.7	37.3	38.1	36.1	37.1	36.7	40.8	41.6	41.9	42.6	44.4	41.9	41.8	36.3		
6300	35.4	32.2	31.4	28.6	31.7	33.2	33.0	33.8	31.6	32.8	32.4	36.5	37.1	37.4	38.2	40.0	37.4	37.2	32.5		
8000	31.1	28.1	27.3	24.7	27.7	29.1	29.1	30.0	27.6	29.1	28.8	32.7	33.3	33.5	34.1	36.0	33.5	33.1	28.7		
10000	26.5	23.7	22.9	20.7	23.5	24.7	25.0	26.0	23.4	25.1	25.0	28.6	29.2	29.3	29.6	31.7	29.3	28.6	24.7		
12500	21.9	19.3	18.6	16.3	19.1	20.2	20.5	21.8	19.2	21.0	21.1	24.3	25.2	25.0	25.0	27.0	25.0	24.1	20.6		
16000	17.8	14.6	13.9	11.8	14.4	15.4	15.9	17.4	14.9	15.8	17.1	19.8	21.1	20.7	20.2	22.1	20.7	19.5	16.5		
20000	11.8	9.6	9.0	7.2	9.6	10.3	11.2	13.2	10.8	12.7	13.3	15.4	17.1	16.5	15.4	17.0	16.5	14.8	12.7		
25000	6.5	4.5	4.0	2.7	5.0	5.4	6.9	9.4	7.2	8.9	9.7	11.2	13.3	12.6	10.9	12.2	12.6	10.5	9.3		

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (F-4 AIRCRAFT IN THE
 (TEXAS ASE HUSH HOUSE
 (OPERATION:
 (AFTERBURNER PMK (98.8%)
 (SINGLE ENGINE
 (GROUND RUNUP IN THE
 (TEXAS ASE HUSH HOUSE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST BF-702-001
 (RUN 04
 (AIRCRAFT CODE 702
 (OPERATION CODE 00103
 (PROFILE VERSION A
 (20 NOV 81
 (PAGE J1

ANGLE	NOISE LEVEL IN PNJB OR DBA										T=ALT
	0	10	20	30	40	50	60	70	80	90	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

[illegible]

NOISE PRODUCED ON THE GROUND BY

MUSH HOUSE (F-15 A/C)

DURING GROUND RUN-JP OPERATIONS

TEST BF-704-001
AIRCRAFT CODE: 704
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Page

Idle Power, 68% RPM	33
Engine Runup, 80% RPM	39
Military Power, 92% RPM	45
Afterburner Power, 92% RPM	51

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
 NORMALIZED SPL AT 250 FEET
 NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
 PERCEIVED NOISE LEVEL
 TONE-CORRECTED, PERCEIVED NOISE LEVEL
 A-WEIGHTED OVERALL SOUND LEVEL
 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
 NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:	
1/3 OCTAVE BAND																	) OMEGA 8.2	
DISTANCE = 250 FEET																	) TEST BF-704-001	
																	) RUN 01	
NOISE SOURCE/SUBJECT:																	) AIRCRAFT CODE 704	
(F-15 AIRCRAFT IN THE																	) OPERATION CODE 00113	
(TEXAS ASE HUSH HOUSE																	) PROFILE VERSION A	
(																	) 20 NOV 81	
(																	) PAGE C3	
(
																	METEOROLOGY:	
(																	) TEMP = 59 F	
(																	) BAR PRESS = 29.92 IN HG	
(																	) REL HUMID = 70 %	
(																	) DELTA N = 0.0 DB	
(
																	ANGLE (DEGREES)	
(BAND CENTER																		
(FREQ (HZ)																		
50	55<	53<	58	59<	58	55<	57<	57<	58<	58<	56<	57<	62<	56<	57<	58	65<	60<
63	55<	53<	57<	59<	56<	55<	57<	57<	58<	58<	56<	57<	62<	56<	57<	56<	65<	60<
80	55	53<	55	59<	55<	55	57	61<	57	58	56<	57	62<	56<	60	55	65	60
100	60	53<	54<	59	53<	57	60	61	59	60	56	56	62	56	58	53<	60	59
125	58<	53<	53<	57<	52<	55<	57<	58	57<	57<	54<	55<	53<	55<	56<	52<	63	57<
160	55	53<	52<	54	50<	53<	53<	56<	55	54<	52<	54<	50<	54	54<	50<	59	55
200	53<	53<	52	52<	49<	51<	50<	54<	51<	52<	50<	52<	54<	52<	52<	49<	54	51<
250	51	53	53	50	47	49<	46	52<	47	49	48	51	51	50	50<	47<	51	46
315	50	49	47	48	45<	47<	45<	49<	45	46	46<	46	48	48	48	45<	48	45<
400	47<	46<	45<	44<	43<	42<	43<	47<	44<	44<	44<	44<	45	44	46<	44<	45	44<
500	44	44<	43	41<	41<	43<	42<	45<	42<	42<	42<	41<	41	42	44<	42<	40	43<
630	42	42	43	38	39	41<	40<	43<	42<	40	40<	39	42	42	42<	41<	41	42<
800	40	39	43	39	40	39	39	41<	41<	41	43	43	45	47	41<	39<	44	41
1000	42	39	41	42	44	40	39	38	40	43	44	42	47	46	37	36	43	41
1250	46	42	42	43	46	43	42	41	41	45	43	41	47	44	48	36<	43	38
1600	47	45	43	42	45	43	42	41	41	45	43	41	47	44	48	36<	43	36
2000	44	43	42	39	39	39	39	38	39	43	41	41	47	44	48	36<	43	36
2500	57	52	44	46	47	45	42	43	43	42	38	39	44	41	41	37<	40	36
3150	54	52	43	43	44	42	38	41	39	38	33	39	+1	38	18<	37	39	36
4000	51	50	42	43	42	41	38	43	41	34	27<	34<	37	35<	12<	34<	37	35<
5000	50	47	40	43	43	41	37	45	33	33	21<	32<	34	31	6<	31	35	33
6300	49	47	40	42	43	40	36	41	40	30	15<	31<	28	29<	0<	25<	32	27<
8000	49	46	39	42	40	37	37	41	40	31	9<	30	22<	28	-6<	19<	30	21<
10000	43	41	31	35	33	31	30	35	34	29	3<	27	16<	22<	-12<	13<	24<	15<
OVERALL	67	64	64	67	64	64	65	69	66	66	64	65	63	65	66	63	72	67

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
IDLE POWER (68%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.0	76.6	71.5	72.8	72.2	71.2	69.7	72.8	70.8	69.8	66.8	68.2	72.3	70.6	64.5	66.1	72.0	68.2	64.9
250	77.7	74.2	69.2	70.4	69.8	68.9	67.4	70.4	68.2	67.5	64.5	65.9	70.0	68.3	62.2	63.7	69.7	66.0	62.6
315	75.3	71.8	66.8	68.0	67.4	66.5	64.9	67.9	65.6	65.2	62.2	63.5	67.7	66.0	59.8	61.2	67.2	63.6	60.3
400	72.8	69.2	64.3	65.5	64.8	64.0	62.4	65.3	63.0	62.6	59.7	60.9	65.3	63.6	57.4	58.6	64.8	61.2	57.9
500	70.2	66.5	61.6	62.8	62.1	61.3	59.7	62.6	60.2	60.0	57.1	58.2	62.8	61.1	54.8	55.8	62.2	58.5	55.2
530	67.4	63.6	58.7	59.9	59.3	58.4	56.7	59.5	57.2	57.0	54.3	55.2	60.1	58.3	51.9	52.7	59.2	55.7	52.4
800	64.5	60.5	55.6	56.8	56.2	55.3	53.5	56.2	53.9	54.0	51.2	51.9	57.2	55.4	48.9	49.3	56.0	52.4	49.2
1000	61.3	57.2	52.2	53.3	52.9	51.9	50.0	52.6	50.3	50.5	47.8	48.4	54.1	52.3	45.7	45.7	52.3	48.9	46.2
1250	57.7	53.6	48.3	49.5	49.1	48.1	45.9	48.7	46.4	46.8	44.0	44.5	50.4	48.7	42.2	41.6	48.2	45.2	42.6
1500	53.9	49.7	43.3	44.9	44.5	43.6	41.4	44.2	41.8	42.3	39.6	39.9	46.3	44.5	38.3	37.1	43.9	40.5	38.4
2000	49.6	44.8	38.9	39.9	39.3	38.3	36.2	39.4	36.5	37.3	34.3	34.2	41.7	39.9	33.5	31.2	38.7	35.1	33.9
2500	44.1	38.9	32.3	32.6	33.1	31.0	27.5	31.8	27.9	30.0	26.9	26.8	35.6	34.0	24.9	23.5	31.4	27.1	25.9
3150	37.4	31.8	23.3	22.9	24.4	21.0	16.4	20.9	15.5	21.3	18.2	17.6	28.0	27.2	16.1	10.6	19.8	16.5	15.8
4000	28.7	20.4	7.3	10.0	12.5	8.1	5.4	6.9	3.0	6.7	9.4	8.4	18.3	16.8	7.2	8.2	5.8	5.7	
5000	18.2	9.4			.6						.6								
6300	7.7																		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(F-15 AIRCRAFT IN THE										(TEMP = 59 F									
(TEXAS ASE HUSH HOUSE										(BAR PRESS =29.92 IN HG									
(										( REL HUMID = 70 %									
(										( DELTA N = 0.0 DB									
(TEXAS ASE HUSH HOUSE										(
DISTANCE										ANGLE (DEGREES)									
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.8	78.2	72.1	74.5	73.9	72.8	70.8	72.8	70.6	69.8	66.8	68.2	72.3	70.5	64.5	66.1	72.6	69.8	64.9
250	80.5	75.8	69.7	72.1	71.6	70.5	68.5	70.4	68.2	67.5	64.5	65.9	70.0	68.3	62.2	63.7	70.2	67.6	62.6
315	78.1	73.4	67.3	69.7	69.1	68.0	66.0	67.9	65.6	65.2	62.2	63.5	67.7	66.0	59.8	61.2	67.8	65.2	60.3
400	75.6	70.8	64.8	67.2	66.6	65.6	63.5	65.3	63.0	62.6	59.7	60.9	65.3	63.6	57.4	58.6	65.4	62.8	57.9
500	73.0	68.1	62.1	64.5	63.9	62.8	60.8	62.6	60.2	60.0	57.1	58.2	62.8	61.1	54.8	55.8	62.8	60.1	55.2
630	70.2	65.2	59.3	61.6	61.1	59.9	57.8	59.5	57.2	57.0	54.3	55.2	60.1	58.3	51.9	52.7	59.8	57.3	52.4
800	67.2	62.1	56.1	58.5	57.9	56.8	54.6	56.2	53.9	54.0	51.2	51.9	57.2	55.4	48.3	49.3	56.6	54.0	49.2
1000	64.8	58.8	52.7	55.0	54.6	53.4	51.1	52.6	50.3	50.5	47.8	48.4	54.1	52.3	45.7	45.7	52.9	50.5	46.2
1250	60.5	52.2	48.8	51.2	50.8	49.6	47.0	48.7	46.4	46.8	44.0	44.5	50.4	48.7	42.2	41.6	48.7	46.8	42.6
1600	56.6	51.2	44.5	46.6	46.2	45.1	42.5	44.2	41.8	42.3	39.6	39.9	46.3	44.5	38.3	37.1	44.5	42.1	38.4
2000	52.3	46.4	39.4	41.6	41.0	39.8	37.3	39.4	36.5	37.3	34.3	34.2	41.7	39.9	33.5	31.2	39.3	36.7	33.9
2500	46.9	40.5	32.9	34.3	34.9	32.6	28.6	31.8	27.9	30.0	26.9	26.8	35.6	34.0	24.9	23.5	32.0	28.7	25.9
3150	40.1	33.4	23.9	24.6	26.1	22.6	17.5	20.9	15.5	21.3	18.2	17.6	28.0	27.2	16.1	10.6	20.4	18.1	15.8
4000	30.9	21.7	7.7	11.3	13.9	9.3	6.3	6.9	3.0	6.7	9.4	8.4	18.3	16.8	7.2		8.7	7.1	5.7
5000	19.8	10.4			1.6						.6								
6300	8.8																		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
F-15 AIRCRAFT IN THE										TEMP = 59 F										) OMEGA 8.2	
TEXAS ASE HUSH HOUSE										SINGLE ENGINE										) OPERATION CODE 00113	
										GROUND RUNUP IN THE										) PROFILE VERSION A	
										TEXAS ASE HUSH HOUSE										) 20 NOV 81	
																				) PAGE F3	
										ANGLE (DEGREES)											
										0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180											
</																					

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)) IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE) OMEGA 8.2	
) TEST BF-704-001	
) RUN 01	
NOISE SOURCE/SUBJECT:										) METEOROLOGY:									
(F-15 AIRCRAFT IN THE										) TEMP = 59 F									
(TEXAS ASE HUSH HOUSE										) SINGLE ENGINE									
										) BAR PRESS = 29.92 IN HG									
										) REL HUMID = 70 %									
										) DELTA N = 0.0 DB									
										) PAGE 63									
ANGLE (DEGREES)																					
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
((FEET)																					
(200	67.7	63.2	57.5	59.1	59.2	57.9	56.2	57.6	55.8	56.2	54.7	54.9	53.0	57.9	53.6	52.3	58.0	56.3	53.6		
(250	65.4	60.9	55.3	56.9	57.0	55.7	54.0	55.4	53.6	54.1	52.6	52.8	50.9	55.8	51.6	50.2	55.9	54.3	51.6		
(315	63.0	58.6	53.1	54.6	54.7	53.5	51.9	53.2	51.4	52.0	50.5	50.7	48.7	53.7	49.5	48.1	53.9	52.2	49.5		
(400	60.6	56.1	50.8	52.3	52.4	51.2	49.6	50.9	49.1	49.8	46.4	48.2	46.3	51.5	47.4	46.0	51.7	50.0	47.4		
(500	58.1	53.6	48.5	49.9	50.0	48.8	47.4	48.6	46.7	47.6	46.2	46.3	45.3	49.3	45.3	43.7	49.5	47.8	45.2		
(630	55.4	51.0	46.0	47.4	47.6	46.4	45.0	46.1	44.3	45.2	43.9	44.0	43.0	47.0	43.0	41.4	47.1	45.5	43.0		
(800	52.7	48.2	43.2	44.8	45.0	43.9	42.5	43.6	41.7	42.8	41.5	41.5	40.0	44.5	40.7	39.0	44.7	43.1	40.6		
(1000	49.8	45.3	40.9	42.2	42.4	41.2	39.9	40.9	39.1	40.3	39.0	39.0	37.5	42.2	38.2	36.6	42.1	40.6	38.2		
(1250	46.7	42.2	38.1	39.3	39.6	38.4	37.1	38.1	36.3	37.6	36.4	36.3	34.0	39.5	35.6	33.9	39.3	38.0	35.6		
(1600	43.3	38.9	35.2	36.2	36.7	35.5	34.2	35.1	33.4	34.7	33.7	33.5	31.5	36.9	32.8	31.2	36.4	35.2	32.8		
(2000	39.8	35.4	32.1	33.1	33.6	32.5	31.2	32.0	30.4	31.7	30.8	30.5	28.5	34.0	30.0	28.3	33.2	32.3	29.9		
(2500	35.9	31.7	28.8	29.6	30.3	29.1	27.8	28.5	27.1	28.4	27.6	27.3	25.3	30.9	26.7	25.1	29.8	29.0	26.7		
(3150	31.6	27.6	25.3	25.8	26.8	25.5	24.2	24.8	23.5	24.9	24.1	23.8	21.7	27.6	23.2	21.5	26.0	25.5	23.2		
(4000	26.5	22.9	21.3	21.4	22.6	21.2	20.0	20.7	19.6	21.0	20.4	20.0	18.0	24.0	19.3	17.7	21.9	21.4	19.3		
(5000	20.9	17.8	16.9	16.8	18.1	16.6	15.6	16.3	15.4	16.8	16.2	16.0	14.8	20.0	15.0	13.4	17.6	16.9	15.0		
(6300	15.2	12.6	12.3	11.9	13.3	11.7	10.8	11.8	10.9	12.3	11.8	11.6	10.3	15.7	10.6	9.0	13.0	12.1	10.6		
(8000	9.8	7.9	8.1	7.4	8.4	7.2	6.5	8.0	7.0	8.0	7.5	7.5	6.1	11.3	7.0	5.2	8.9	7.8	6.9		
(10000	4.5	3.2	3.7	2.7	3.2	2.5	2.0	4.2	2.8	3.4	2.9	3.1	1.3	6.5	3.2	1.2	4.8	3.3	3.0		
(12500								.2					1.4				.8				
(16000																					
(20000																					
(25000																					

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
F-15 AIRCRAFT IN THE																		
TEXAS ASE HUSH HOUSE																		
OPERATION:																		
80% RPM																		
SINGLE ENGINE																		
GROUND RUNUP IN THE																		
TEXAS ASE HUSH HOUSE																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = 0.0 DB																		
AIRCRAFT CODE 704																		
OPERATION CODE 00119																		
PROFILE VERSION A																		
20 NOV 81																		
PAGE C4																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST BF-704-001																		
RUN 02																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	61	59	58	59	62	63	66	64	62	60	63	63	63	66	66	70	69	70
63	59	59	59	60	61	61	63	62	62	62	63	65	62	61	61	63	62	62
80	59	57	59	59	60	62	60	61	60	61	62	76	61	60	61	62	60	60
100	61	60	62	62	61	59	66	64	64	64	62	65	64	64	59	63	61	56
125	60	59	60	58	59	57	62	61	61	61	60	63	63	61	59	62	59	54
160	54	57	63	55	50	56	55	58	56	57	56	58	59	57	57	59	57	52
200	53	56	54	57	53	53	52	54	57	56	53	53	52	56	55	57	55	50
250	52	54	51	47	50	48	50	49	52	50	50	51	50	55	54	55	52	48
315	50	52	48	46	47	46	47	45	47	46	45	48	47	52	52	51	50	45
400	45	46	43	44	45	45	44	43	44	45	43	46	46	49	49	48	45	43
500	47	47	45	45	44	42	44	41	40	41	44	42	44	48	47	47	43	41
630	45	45	44	43	40	42	41	38	40	42	40	44	43	49	46	48	44	40
800	42	42	44	43	42	40	41	38	41	41	38	45	43	50	46	51	45	40
1000	44	43	45	45	42	42	41	33	40	40	38	45	44	51	44	50	44	42
1250	49	47	45	48	47	46	43	40	40	39	38	45	42	50	44	48	42	40
1600	49	48	47	46	45	44	42	41	42	41	39	45	42	46	42	47	42	40
2000	44	44	44	43	40	38	41	39	40	38	38	42	41	44	41	45	41	37
2500	49	47	45	44	45	45	40	38	39	35	35	40	39	42	39	42	38	34
3150	48	45	41	40	43	41	37	36	36	34	34	38	37	42	39	42	38	34
4000	45	45	40	37	38	37	34	37	33	33	32	35	35	41	37	40	36	33
5000	43	42	42	43	42	36	45	41	35	31	31	32	34	38	37	38	36	31
6300	46	45	40	42	40	32	42	36	31	30	29	30	30	37	35	35	33	25
8000	44	42	38	38	36	31	39	36	31	32	28	29	29	35	34	34	32	19
10000	38	35	32	31	31	27	35	32	27	31	22	23	26	31	28	29	27	13
OVERALL	68	68	67	69	68	69	71	70	70	69	70	77	70	71	70	73	71	71

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

[illegible]

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
80% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.0	76.3	72.9	74.6	73.8	73.8	69.4	74.4	72.3	71.3	71.2	69.1	75.6	71.6	74.5	71.4	74.0	70.6	67.7
250	74.7	73.9	70.6	72.3	71.5	71.4	67.1	72.0	69.9	68.9	68.9	66.7	74.2	69.3	72.1	69.1	71.7	68.3	65.2
315	72.3	71.4	68.2	69.9	69.1	69.1	64.8	69.5	67.4	66.5	66.4	64.2	71.8	66.9	69.7	66.8	69.3	65.9	62.6
400	69.8	68.8	65.8	67.4	66.6	66.6	62.3	67.0	64.8	63.9	63.9	61.7	69.4	64.4	67.3	64.4	66.9	63.4	60.0
500	67.2	66.1	63.2	64.7	64.0	63.9	59.7	64.3	62.1	61.3	61.1	59.0	66.8	61.8	64.7	61.9	64.4	60.7	57.0
630	64.4	63.3	60.4	61.9	61.2	61.1	56.8	61.4	59.2	58.4	58.2	56.0	64.1	58.7	62.0	59.1	61.7	57.7	53.7
800	61.4	60.3	57.3	58.6	58.1	57.9	53.5	58.2	55.9	55.2	55.0	52.6	61.3	55.5	59.0	56.1	58.8	54.6	50.3
1000	58.1	56.9	53.9	55.2	54.7	54.6	50.1	54.4	51.9	51.2	51.0	48.6	58.3	51.9	55.8	52.9	55.5	51.3	46.9
1250	54.5	53.3	50.2	51.2	50.9	50.7	46.1	50.1	47.4	46.9	46.8	44.1	54.6	47.7	52.2	49.1	51.7	47.5	43.3
1600	50.4	48.9	45.8	46.9	46.4	46.1	41.8	45.1	42.3	42.4	41.8	39.4	50.3	43.1	48.3	45.1	48.0	43.4	38.9
2000	45.6	44.3	41.2	42.2	41.6	41.1	36.6	39.0	36.3	36.9	36.5	34.1	44.8	36.2	43.9	40.7	43.7	37.7	32.3
2500	39.7	38.4	34.2	36.3	34.4	33.5	28.4	30.5	26.5	29.7	29.1	23.7	38.0	31.8	39.0	34.9	38.7	31.0	24.3
3150	32.8	30.4	26.5	28.1	26.8	23.7	18.5	19.3	8.1	14.8	16.3	9.7	28.2	22.4	32.5	26.8	32.2	22.1	9.0
4000	21.2	19.3	14.2	16.2	14.2	9.0	8.6	7.9			3.4	13.0	12.9	24.5	15.5	24.8	7.2		
5000	9.7	8.1	2.0	4.2	1.5														
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATIONS:	
(F-15 AIRCRAFT IN THE)) TEMP = 59 F) OMEGA 8.2	
(TEXAS A&E HUSH HOUSE)) SINGLE ENGINE)) TEST 8F-704-001	
(GROUND RUNUP IN THE)) BAR PRESS =29.92 IN HG) RUN 02	
(TEXAS A&E HUSH HOUSE)) REL HUMID = 70 %) AIRCRAFT CODE 704	
) DELTA N = 0.0 DB) OPERATION CODE 00119	
) PROFILE VERSION A	
) 20 NOV 81	
) PAGE F4	
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	61.2	60.4	58.7	59.4	58.3	57.4	55.7	57.6	58.0	56.4	56.1	54.7	54.9	57.2	60.9	58.1	60.8	57.0	53.7		
250	59.0	58.2	56.5	57.3	56.1	55.3	53.6	52.5	53.9	54.4	54.1	52.7	52.9	55.1	58.8	56.0	58.8	54.9	51.7		
315	56.7	55.9	54.3	55.2	53.9	53.1	51.5	53.3	51.8	52.3	52.0	50.6	50.8	53.0	56.7	53.9	56.7	52.8	49.6		
400	54.4	53.6	52.1	53.0	51.7	50.9	49.4	51.0	49.6	50.2	49.9	48.5	48.7	50.9	54.6	51.8	54.5	50.7	47.4		
500	52.0	51.3	49.8	50.7	49.4	48.6	47.1	48.7	47.3	47.9	47.6	46.3	46.5	48.7	52.4	49.5	52.3	48.4	45.2		
630	49.5	48.8	47.4	48.3	47.0	46.2	44.8	46.3	44.9	45.6	45.3	43.9	43.9	46.4	50.1	47.2	50.0	46.1	43.0		
800	46.9	46.2	45.0	45.8	44.5	43.7	42.4	43.7	42.4	43.1	42.9	41.5	41.5	43.3	47.7	44.9	47.6	43.7	40.5		
1000	44.2	43.6	42.4	43.2	42.0	41.1	40.0	41.0	39.7	40.4	40.3	38.9	38.9	41.4	45.3	42.4	45.1	41.2	38.2		
1250	41.4	40.7	39.6	40.4	39.2	38.3	37.3	38.2	36.9	37.6	37.5	36.1	36.1	38.6	42.7	39.7	42.5	38.5	35.6		
1600	38.4	37.7	36.8	37.5	36.4	35.4	34.5	35.1	33.8	34.6	34.5	33.2	33.2	35.8	40.0	37.0	39.8	35.7	32.9		
2000	35.3	34.6	33.7	34.4	33.4	32.3	31.5	31.9	30.5	31.4	31.4	30.0	30.0	32.7	37.2	34.1	36.9	32.6	29.9		
2500	32.0	31.3	30.5	31.2	30.2	28.9	28.2	28.4	26.9	27.8	28.0	26.5	26.5	29.4	34.1	30.8	33.8	29.4	26.7		
3150	28.4	27.6	27.0	27.6	26.7	25.3	24.7	24.6	23.1	24.0	24.3	22.6	22.6	25.3	30.9	27.3	30.5	25.9	23.1		
4000	24.5	23.7	23.2	23.7	23.0	21.3	20.8	20.5	18.9	19.8	20.2	18.5	18.5	21.3	27.3	23.5	26.9	22.0	19.3		
5000	20.2	19.4	19.0	19.6	18.9	17.1	16.6	16.2	14.5	15.5	16.0	14.1	14.1	17.5	23.4	19.3	23.0	17.9	15.1		
6300	15.7	14.8	14.5	15.1	14.4	12.6	12.1	11.7	10.0	11.0	11.6	9.6	9.6	13.4	19.1	14.9	18.7	13.5	10.7		
8000	11.3	10.6	10.4	10.9	10.1	8.3	8.1	7.8	6.2	7.2	7.9	6.0	6.0	9.5	15.0	11.1	14.6	9.6	6.8		
10000	6.7	6.2	5.9	6.5	5.5	3.9	3.9	3.8	2.3	3.3	4.0	2.3	2.3	5.4	10.5	7.0	10.3	5.5	2.8		
12500	1.9	1.7	1.3	1.9	.7					.1			.5	1.2	5.7	2.7	5.6	1.3			
16000													1.1				.7				
20000																					
25000																					

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
F-15 AIRCRAFT IN THE										TEMP = 59 F									
TEXAS ASE HUSH HOUSE										BAR PRESS =29.92 IN HG									
(										REL HUMID = 70 %									
(										DELTA N = 0.0 DB									
(										AIRCRAFT CODE 704									
(										OPERATION CODE 00119									
(										PROFILE VERSION A									
(										20 NOV 81									
(										PAGE 64									

ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.3	61.4	58.7	60.3	59.5	59.0	55.7	59.0	57.3	57.0	56.7	54.7	59.9	57.2	61.5	58.1	60.8	57.0	53.7
250	60.1	59.2	56.5	58.1	57.3	56.8	53.6	56.8	55.2	54.9	54.7	52.7	57.9	55.1	59.5	56.0	58.8	54.9	51.7
315	57.8	57.0	54.3	56.0	55.2	54.7	51.5	54.6	53.1	52.8	52.6	50.6	55.8	53.0	57.3	53.9	56.7	52.8	49.6
400	55.5	54.7	52.1	53.8	52.9	52.4	49.4	52.3	50.9	50.7	50.5	48.5	53.7	50.9	55.2	51.8	54.5	50.7	47.4
500	53.1	52.3	49.8	51.5	50.6	50.1	47.1	50.0	48.9	48.5	48.2	46.3	51.6	48.7	53.8	49.5	52.3	48.4	45.2
630	50.6	49.8	47.4	49.1	48.2	47.8	44.8	47.6	46.2	46.1	45.9	43.9	49.4	46.4	50.7	47.2	50.0	46.1	43.0
800	48.0	47.3	45.0	46.6	45.8	45.3	42.4	45.1	43.7	43.6	43.5	41.5	47.1	43.9	48.4	44.9	47.6	43.7	40.6
1000	45.3	44.6	42.4	44.0	43.2	42.7	40.0	42.4	41.1	41.0	40.9	38.9	44.8	41.4	45.9	42.4	45.1	41.2	38.2
1250	42.5	41.8	39.6	41.2	40.5	39.9	37.3	39.5	38.2	38.2	38.1	36.1	41.9	38.6	43.3	39.7	42.5	38.5	35.6
1600	39.5	38.8	36.8	38.3	37.6	37.0	34.5	36.4	35.1	35.1	35.1	33.2	38.9	35.5	40.6	37.0	39.8	35.7	32.9
2000	36.4	35.7	33.7	35.3	34.6	33.9	31.5	33.2	31.8	31.9	32.0	30.0	35.7	32.7	37.8	34.1	36.9	32.6	29.9
2500	33.1	32.3	30.5	32.0	31.4	30.5	28.2	29.7	28.3	28.4	28.6	26.5	32.1	29.4	34.8	30.8	33.8	29.4	26.7
3150	29.5	28.7	27.0	28.4	28.0	26.9	24.7	25.9	24.4	24.5	24.9	22.6	28.3	25.8	31.5	27.3	30.5	25.9	23.1
4000	25.4	24.5	23.2	24.4	23.9	22.6	20.8	21.5	19.9	20.3	20.7	18.5	24.2	21.9	27.8	23.5	26.9	22.0	19.3
5000	20.9	20.0	19.0	20.1	19.6	18.1	16.6	17.0	15.3	15.9	16.4	14.1	20.0	17.8	23.7	19.3	23.0	17.9	15.1
6300	16.1	15.2	14.5	15.5	14.9	13.2	12.1	12.2	10.5	11.2	11.8	9.6	15.5	13.4	19.3	14.9	18.7	13.5	10.7
8000	11.5	10.8	10.4	11.1	10.4	8.7	8.1	8.0	6.4	7.3	8.0	6.0	11.9	9.5	15.1	11.1	14.6	9.6	6.8
10000	6.7	6.2	5.9	6.5	5.5	3.9	3.9	3.8	2.3	3.3	4.0	2.3	8.2	5.4	10.5	7.0	10.3	5.5	2.8
12500	1.9	1.7	1.3	1.9	.7					.1			4.5	1.2	5.7	2.7	5.6	1.3	
16000													1.1		.7				
20000																			
25000																			

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
MILITARY POWER (92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
AIRCRAFT CODE 704																			
OPERATION CODE 00104																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE C2																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
BAND CENTER																			
FREQ (HZ)																			
50 70 69 71 70 73 74 74 75 74 74 73 73 75 76 80 81 81 80 82																			
63 66 66 66 69 68 69 69 72 70 71 70 73 73 70 69 74 75 74 75																			
80 68 65 66 67 69 67 68 69 69 69 70 71 71 70 68 69 70 70 69																			
100 70 67 68 66 69 68 66 67 69 71 73 74 74 72 70 68 68 68 71																			
125 70 67 65 64 65 65 63 65 60 68 70 68 71 68 68 68 69 67 64																			
160 66 63 63 63 63 61 59 60 63 65 66 65 65 65 67 69 65 60																			
200 64 63 62 58 60 60 57 58 59 62 64 64 63 65 67 66 68 68 62																			
250 61 63 62 58 58 56 58 58 53 63 64 67 63 67 68 71 68 68 61																			
315 63 61 64 58 53 51 53 53 58 57 60 63 63 61 62 66 66 63 55																			
400 62 61 63 59 57 55 52 50 59 53 56 61 61 59 59 63 67 60 52																			
500 69 68 68 64 66 66 61 66 61 62 61 53 57 60 58 63 68 60 51																			
630 67 66 67 64 66 65 61 62 61 62 61 56 58 56 57 62 66 62 52																			
800 64 62 63 62 63 62 62 59 53 57 58 59 60 57 58 64 65 63 53																			
1000 64 63 61 60 63 62 58 57 56 53 55 55 58 54 55 60 62 63 52																			
1250 67 66 65 63 64 64 60 59 55 54 56 57 59 54 56 60 60 63 53																			
1600 65 64 63 61 62 61 58 55 55 52 54 56 56 58 54 52 56 61 49																			
2000 60 61 60 56 57 55 53 51 54 51 54 54 54 51 52 53 58 62 48																			
2500 56 56 55 54 55 53 51 48 48 47 49 49 50 51 46 49 51 54 46																			
3150 55 55 50 50 49 50 48 47 47 47 47 47 48 47 49 50 57 54 40																			
4000 51 52 47 47 47 48 46 45 45 47 44 45 44 44 47 47 48 50 43																			
5000 52 50 47 47 47 47 46 45 45 45 44 43 43 43 44 40 49 48 43																			
6300 51 51 48 46 48 48 47 47 47 47 44 42 41 43 44 44 47 45 41																			
8000 50 50 46 46 45 44 44 45 46 43 42 41 42 42 44 44 44 43 40																			
10000 48 47 42 41 40 40 40 41 41 42 39 38 37 38 40 39 39 39 36																			
OVERALL 79 78 78 77 78 78 77 79 78 78 79 80 81 80 82 83 84 83 83																			

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
MILITARY POWER (32X)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.1	87.3	86.3	84.4	85.2	84.4	82.4	82.9	82.0	80.6	82.0	83.4	85.4	82.9	83.7	86.2	87.8	87.4	82.1
250	85.9	85.1	84.1	82.2	83.0	82.2	80.1	80.6	79.8	78.2	79.6	81.1	83.1	80.6	81.5	84.0	85.6	85.2	79.5
315	83.6	82.8	81.8	79.9	80.7	79.9	77.8	78.3	77.4	75.8	77.3	78.8	80.8	78.3	79.1	81.7	83.3	82.3	76.9
400	81.3	80.5	79.5	77.6	78.3	77.6	75.5	76.0	75.1	73.5	74.9	76.5	78.5	76.0	76.8	79.3	81.0	80.5	74.3
500	78.8	78.1	77.1	75.2	76.0	75.2	73.1	73.7	72.6	71.0	72.4	74.0	76.0	73.5	74.3	76.9	78.7	78.1	71.6
530	76.3	75.5	74.5	72.7	73.5	72.7	70.6	71.2	70.1	68.3	69.7	71.4	73.4	70.9	71.7	74.3	76.2	75.6	68.9
900	73.7	72.9	72.1	70.1	70.9	70.1	67.9	68.7	67.5	65.5	67.0	68.6	70.6	68.1	69.8	71.5	73.7	73.0	66.1
1000	71.0	70.2	69.4	67.3	68.1	67.3	65.1	66.0	64.7	62.4	64.1	65.9	67.6	65.0	66.8	68.6	71.1	70.2	63.1
1250	68.0	67.2	66.2	64.3	65.2	64.3	62.0	63.1	61.7	59.2	61.0	62.7	64.4	61.7	62.9	65.4	68.3	67.2	59.8
1600	64.8	64.2	63.6	61.1	62.2	61.3	58.7	60.0	58.5	55.4	57.3	59.4	60.8	58.0	58.9	62.0	65.3	63.9	56.0
2000	61.6	61.0	60.4	57.9	59.0	58.1	55.1	56.7	55.0	51.4	53.2	55.9	57.3	54.4	55.2	58.6	62.0	60.2	51.3
2500	58.1	57.4	56.9	54.0	55.3	54.5	51.1	52.9	51.0	47.0	48.6	51.3	52.7	49.7	50.4	54.6	58.4	56.1	45.5
3150	53.9	53.3	52.6	49.5	51.0	50.1	45.1	48.0	45.7	41.6	43.5	45.9	47.7	44.4	45.0	50.1	53.9	51.3	38.9
4000	48.9	48.3	47.7	44.6	45.9	45.2	41.0	42.7	40.2	35.4	37.4	39.8	42.2	38.0	39.0	44.9	48.9	45.0	31.5
5000	43.3	42.8	42.2	39.0	40.6	39.9	35.7	37.3	34.2	28.1	30.3	33.8	35.6	31.5	32.3	39.2	43.1	39.4	21.8
6300	37.3	36.8	36.1	33.1	34.6	34.1	29.2	31.1	27.4	18.4	20.1	25.4	27.2	21.7	23.3	32.6	36.8	32.8	8.3
8000	32.3	31.2	30.9	26.6	29.3	28.7	21.7	24.9	18.4	7.7	9.3	15.0	18.9	11.7	12.9	26.1	31.6	25.0	
10000	25.7	25.0	22.8	17.3	21.6	19.5	12.5	17.7	10.6		4.6	7.2	1.7	2.5		16.4	24.9	15.5	
12500	16.2	15.8	14.9	6.9	12.6	11.3	3.3	9.5	2.7							6.7	15.9	6.0	
16000	6.9	6.6	6.9		3.5	3.0		1.4									6.8		
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
F-15 AIRCRAFT IN THE										TEMP = 59 F										OMEGA 8.2	
TEXAS ASE HUSH HOUSE										SINGLE ENGINE										TEST BF-704-001	
GROUND RUNUP IN THE										BAR PRESS =29.92 IN HG										RUN 03	
TEXAS ASE HUSH HOUSE										REL HUMID = 70 %										AIRCRAFT CODE 704	
										DELTA N = 0.0 DB										OPERATION CODE 00104	
																				PROFILE VERSION A	
																				20 NOV 81	
																				PAGE E2	
ANGLE (DEGREES)																					
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
(FEET)	200	89.4	80.9	87.5	84.4	86.6	85.8	84.0	84.7	82.0	81.1	82.0	84.0	86.0	83.6	84.3	87.3	89.6	88.7	82.8	
	250	87.2	86.0	85.3	82.2	84.3	83.6	81.8	82.5	79.8	78.7	79.6	81.6	83.7	81.3	82.0	85.0	87.4	86.4	80.2	
	315	84.9	84.4	83.1	79.9	82.0	81.3	79.5	80.2	77.4	76.3	77.3	79.4	81.4	79.0	79.7	82.7	85.2	84.1	77.6	
	400	82.6	82.0	80.7	77.6	79.7	79.0	77.1	77.9	75.1	74.0	74.9	77.0	79.1	76.7	77.3	80.4	82.9	81.8	75.0	
	500	80.2	79.6	78.3	75.2	77.3	76.6	74.7	75.5	72.6	71.5	72.4	74.6	76.6	74.2	74.9	77.9	80.5	79.4	72.4	
	630	77.7	77.1	75.9	72.7	74.9	74.1	72.2	73.1	70.1	68.8	69.7	72.0	74.0	71.5	72.2	75.3	78.1	76.8	69.6	
	800	75.0	74.5	73.3	70.1	72.3	71.5	69.6	70.6	67.5	66.0	67.0	69.2	71.2	68.8	69.4	72.5	75.6	74.2	66.8	
	1000	72.3	71.7	70.6	67.3	69.5	68.7	66.7	67.9	64.7	62.9	64.1	66.2	68.2	65.7	66.4	69.6	73.0	71.4	63.8	
	1250	69.3	68.8	67.7	64.3	66.6	65.8	63.6	65.0	61.7	59.7	61.0	63.2	65.0	62.4	63.1	66.4	70.2	68.4	60.5	
	1600	66.2	65.7	64.8	61.1	63.6	62.7	60.3	61.9	58.5	55.9	57.3	59.9	61.4	58.7	59.4	63.1	67.2	65.1	56.8	
	2000	63.0	62.6	61.0	57.7	60.4	59.5	56.7	58.6	55.0	51.9	53.2	56.4	57.9	55.1	55.7	59.6	63.9	61.4	52.1	
	2500	59.4	58.9	58.1	54.0	56.7	55.9	52.8	54.8	51.0	47.5	48.6	51.8	53.3	50.3	50.9	55.6	60.2	57.4	46.2	
	3150	55.2	54.8	53.8	49.5	52.4	51.5	47.3	49.9	45.7	42.1	43.5	46.5	48.3	45.1	45.5	51.1	55.8	52.6	39.7	
	4000	49.9	49.6	48.7	44.6	47.8	46.3	42.3	44.3	40.2	35.8	37.4	40.2	42.7	38.5	39.5	45.7	50.4	46.0	32.1	
	5000	44.1	43.7	43.0	39.0	41.4	40.8	36.6	38.4	34.2	28.4	30.3	34.1	35.9	31.9	32.6	39.8	44.2	40.1	22.3	
	6300	37.9	37.4	36.6	33.1	35.1	34.6	29.9	31.8	27.4	18.6	20.1	25.6	27.4	22.0	23.5	33.0	37.5	33.3	8.6	
	8000	32.6	31.5	31.1	26.6	29.6	29.0	22.1	25.3	18.4	7.8	9.3	15.1	19.0	11.8	13.0	26.4	31.9	25.3		
	10000	25.7	25.0	22.8	17.3	21.6	19.5	12.5	17.7	10.0			4.6	7.2	1.7	2.5	16.4	24.9	15.5		
	12500	16.2	15.3	14.3	6.9	12.6	11.3	3.3	9.5	2.7							6.7	15.9	6.0		
	16000	6.9	6.6	6.9		3.5	3.0		1.4									6.6			
	20000																				
	25000																				

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
MILITARY POWER (92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.0	75.4	74.6	72.6	73.9	73.2	70.2	70.1	69.1	66.6	68.1	69.7	71.3	68.5	69.2	72.7	75.0	73.3	65.1
250	73.9	73.3	72.5	70.5	71.8	71.1	68.1	68.0	67.0	64.6	66.0	67.6	69.3	66.4	67.2	70.6	72.9	71.8	63.0
315	71.8	71.1	70.4	68.4	69.7	69.0	66.0	65.9	64.9	62.5	63.9	65.5	67.2	64.4	65.1	68.6	70.9	69.7	60.9
400	69.7	69.0	68.3	66.3	67.6	66.9	63.8	63.8	62.7	60.3	61.8	63.4	65.1	62.3	63.0	66.5	68.7	67.5	58.8
500	67.5	66.8	66.1	64.1	65.4	64.7	61.6	61.7	60.6	58.1	59.6	61.2	62.9	60.1	60.8	64.3	66.6	65.3	56.6
630	65.3	64.6	63.9	61.8	63.2	62.5	59.4	59.5	58.3	55.8	57.2	58.9	60.6	57.8	58.4	62.1	64.3	63.0	54.3
800	63.0	62.3	61.5	59.6	60.9	60.3	57.1	57.2	56.0	53.4	54.9	56.6	58.2	55.4	56.1	59.7	62.1	60.7	52.0
1000	60.6	59.9	59.3	57.2	58.6	57.9	54.8	54.9	53.7	51.0	52.4	54.2	55.7	52.9	53.6	57.4	59.7	58.3	49.5
1250	58.2	57.5	56.9	54.8	56.2	55.5	52.3	52.6	51.2	48.3	49.7	51.6	53.1	50.3	51.0	54.8	57.3	55.7	47.0
1600	55.7	54.9	54.3	52.2	53.7	53.0	49.8	50.1	48.7	45.6	46.9	48.8	50.3	47.5	48.2	52.2	54.8	53.0	44.2
2000	53.0	52.3	51.7	49.6	51.1	50.4	47.1	47.6	46.1	42.7	44.0	46.0	47.5	44.7	45.3	49.5	52.2	50.2	41.2
2500	50.2	49.5	48.8	46.8	48.3	47.7	44.3	44.9	43.2	39.6	40.9	42.8	44.3	41.5	42.1	46.5	49.3	47.2	38.0
3150	47.0	46.3	45.6	43.6	45.2	44.6	41.2	41.7	40.0	36.3	37.5	39.4	40.9	38.0	38.7	43.2	46.0	43.9	34.5
4000	43.5	42.7	42.0	40.1	41.7	41.1	37.8	38.2	36.5	32.7	33.8	35.7	37.1	34.2	34.9	39.7	42.4	40.3	30.7
5000	39.4	38.6	38.0	36.1	37.8	37.2	33.8	34.1	32.4	28.7	29.8	31.5	33.1	30.0	30.8	35.7	38.3	36.4	26.5
6300	35.1	34.3	33.6	31.8	33.5	32.9	29.5	29.8	28.1	24.4	25.4	27.1	29.7	25.8	26.4	31.4	34.0	32.0	22.1
8000	31.0	30.2	29.6	27.7	29.5	28.9	25.5	26.1	24.2	20.4	21.4	23.2	24.7	21.8	22.5	27.5	30.2	27.8	18.3
10000	26.7	25.9	25.3	23.3	25.1	24.5	21.1	22.0	20.1	16.1	17.0	18.9	20.4	17.7	18.4	23.3	26.2	23.2	14.3
12500	21.9	21.2	20.7	18.6	20.4	19.8	16.3	17.6	15.8	11.6	12.4	14.4	15.9	13.4	14.0	18.8	21.7	18.2	10.3
16000	16.8	16.2	15.7	13.4	15.2	14.6	11.1	12.8	10.7	6.8	7.6	9.7	11.2	8.3	9.5	13.9	16.9	13.0	6.5
20000	11.2	10.6	10.2	7.8	9.5	8.9	5.4	7.5	5.4	2.1	2.8	4.8	6.4	4.4	5.0	8.8	11.7	7.5	3.0
25000	5.1	4.5	4.2	1.7	3.3	2.7	1.9					.2	1.8	.7	.7	3.6	6.2	2.3	

IDENTIFICATION:

OMEGA 8.2

TEST BF-704-001

RUN 03

AIRCRAFT CODE 704

OPERATION CODE 00104

PROFILE VERSION A

20 NOV 81

PAGE F2

ANGLE (DEGREES)

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
MILITARY POWER (92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	76.9	75.8	72.6	75.3	74.6	71.8	72.0	69.1	67.1	68.1	70.2	71.9	69.2	69.8	73.7	76.9	75.2	65.8
250	75.3	74.8	73.7	70.5	73.2	72.6	69.7	69.9	67.0	65.1	66.0	68.1	69.9	67.1	67.7	71.7	74.8	73.1	63.7
315	73.2	72.7	71.6	68.4	71.1	70.5	67.6	67.8	64.9	63.0	63.9	66.1	67.8	65.1	65.6	69.6	72.7	70.9	61.6
400	71.0	70.5	69.5	66.3	68.9	68.3	65.5	65.7	62.7	60.8	61.8	63.9	65.7	62.9	63.5	67.5	70.6	68.8	59.5
500	68.8	68.4	67.3	64.1	66.8	66.1	63.3	63.5	60.6	58.6	59.6	61.8	63.5	60.8	61.3	65.3	68.4	66.6	57.3
630	66.6	66.1	65.1	61.8	64.6	63.9	61.0	61.4	58.3	56.3	57.2	59.5	61.2	58.7	59.0	63.1	66.2	64.3	55.0
800	64.3	63.8	62.8	59.6	62.3	61.7	58.7	59.1	56.0	53.9	54.9	57.2	58.8	56.1	56.6	60.8	63.9	61.9	52.7
1000	62.0	61.5	60.5	57.2	60.0	59.3	56.4	56.8	53.7	51.5	52.4	54.7	56.3	53.6	54.1	58.4	61.6	59.5	50.3
1250	59.5	59.0	58.1	54.8	57.6	56.9	53.9	54.5	51.2	48.8	49.7	52.1	53.7	51.0	51.5	55.9	59.2	56.9	47.7
1600	57.0	56.5	55.5	52.2	55.1	54.5	51.4	52.0	48.7	46.1	46.9	49.4	50.9	48.2	48.7	53.3	56.6	54.2	44.9
2000	54.4	53.8	52.9	49.6	52.5	51.9	48.8	49.5	46.1	43.2	44.0	46.5	48.1	45.3	45.8	50.5	54.0	51.4	42.0
2500	51.5	51.0	50.1	46.8	49.7	49.1	45.9	46.7	43.2	40.1	40.9	43.4	44.9	42.1	42.7	47.5	51.1	48.4	38.7
3150	48.3	47.8	46.9	43.6	46.6	46.0	42.9	43.6	40.0	36.8	37.5	39.9	41.5	38.7	39.2	44.3	47.9	45.2	35.2
4000	44.5	43.9	43.0	40.1	42.8	42.3	39.1	39.7	36.5	33.1	33.8	36.1	37.6	34.7	35.3	40.5	43.9	41.3	31.2
5000	40.2	39.6	38.7	36.1	38.6	38.0	34.8	35.3	32.4	29.0	29.8	31.9	33.4	30.4	31.1	36.3	39.5	37.1	27.0
6300	35.6	34.9	34.1	31.8	34.0	33.4	30.2	30.6	26.1	24.6	25.4	27.3	28.9	25.9	26.6	31.8	34.7	32.5	22.4
8000	31.3	30.6	29.9	27.7	29.8	29.2	25.8	26.5	24.2	20.5	21.4	23.3	24.8	22.0	22.6	27.7	30.6	28.0	18.5
10000	26.7	25.9	25.3	23.3	25.1	24.5	21.1	22.0	20.1	16.1	17.0	18.9	20.4	17.7	18.4	23.3	26.2	23.2	14.3
12500	21.9	21.2	20.7	18.6	20.4	19.8	16.3	17.6	15.0	11.6	12.4	14.4	15.9	13.4	14.0	18.8	21.7	18.2	10.3
16000	16.8	16.2	15.7	13.4	15.2	14.6	11.1	12.8	10.7	6.8	7.6	9.7	11.2	8.9	9.5	13.9	16.9	13.0	6.5
20000	11.2	10.6	10.2	7.8	9.5	8.9	5.4	7.5	5.4	2.1	2.8	4.8	6.4	4.4	5.0	8.8	11.7	7.5	3.0
25000	5.1	4.5	4.2	1.7	3.3	2.7	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	3.6	6.2	2.3	2.3

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
JAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 9F-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT

A=AL

T=ALT

	-10	0	10	20	30	40	50	60	70	80	90
0										AT	P
10									AT		P
20									AT		P
30									X		P
40									AT		P
50									AT		P
60									AT		P
70									AT		P
80									X		P
90									X		P
100									X		P
110									X		P
120									AT		P
130									AT		P
140									AT		P
150									AT		P
160									AT		P
170									AT		P
180									AT		P

NOISE LEVEL IN PND3 OR DWA

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS A&E HUSH HOUSE																			
OPERATION:																			
AFTERBURNER POWER (92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS A&E HUSH HOUSE																			
METEOROLGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST BF-704-001																			
RUN 04																			
AIRCRAFT CODE 704																			
OPERATION CODE 00103																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	95.9	95.2	92.9	93.5	92.9	92.4	89.0	93.5	90.0	91.2	92.8	94.9	94.0	94.3	97.5	97.6	97.2	95.7	98.4
250	93.7	93.0	90.7	91.3	90.7	90.1	86.8	91.4	87.5	88.9	90.6	92.7	91.5	92.1	95.4	95.4	95.1	93.6	96.3
315	91.4	90.7	88.4	89.0	88.4	87.9	84.4	88.5	85.0	86.5	88.4	90.5	89.3	89.5	93.2	93.3	92.9	91.4	94.1
400	89.1	88.4	86.1	86.7	86.0	85.2	82.1	86.3	82.6	84.1	86.1	88.2	86.8	87.0	90.7	91.1	90.8	88.9	91.9
500	86.7	86.0	83.7	84.3	83.6	83.1	79.8	83.7	80.0	81.6	83.6	85.7	84.4	84.3	88.0	88.5	88.3	86.2	89.5
630	84.2	83.5	81.2	81.8	81.1	80.6	77.1	81.0	77.4	79.0	81.0	83.1	81.8	81.5	85.3	85.8	85.6	83.5	86.8
800	81.7	80.9	78.5	79.2	78.5	78.0	74.2	78.2	74.7	75.2	78.2	80.4	79.0	78.9	82.6	83.0	82.7	80.6	84.0
1000	79.0	78.1	75.9	76.5	75.8	75.3	71.7	75.3	71.9	73.1	75.1	77.3	75.0	75.3	79.7	80.1	79.8	77.7	81.2
1250	76.1	75.2	73.0	73.6	72.9	72.2	68.8	72.3	68.9	69.7	71.7	74.0	72.9	72.9	76.7	77.1	76.8	74.6	78.2
1600	73.0	72.1	69.9	70.5	69.8	69.4	65.6	69.0	65.0	66.1	68.0	70.0	68.9	69.5	73.5	73.9	73.6	71.4	75.0
2000	69.6	68.7	66.4	67.0	66.4	66.0	61.9	65.6	62.0	62.4	64.0	67.1	66.7	65.5	69.5	69.9	69.5	67.3	71.0
2500	65.8	64.9	62.6	63.2	62.6	62.2	57.9	61.3	57.3	58.4	59.7	63.2	63.0	61.1	65.4	65.4	64.8	62.7	66.3
3150	61.5	60.8	58.5	59.0	58.5	58.1	53.4	57.3	53.3	53.8	55.2	58.6	58.5	56.4	60.5	60.1	59.4	57.2	61.1
4000	56.6	55.8	53.5	54.2	53.6	53.2	47.7	51.5	47.3	48.5	49.9	53.5	53.6	51.0	55.5	55.1	53.2	50.5	55.7
5000	51.5	50.2	47.5	48.3	47.4	46.9	41.2	44.9	40.4	42.6	43.9	47.7	47.7	45.0	49.8	49.8	46.0	44.0	50.3
6300	45.0	44.0	41.5	42.2	41.5	41.2	35.0	37.8	34.3	35.4	37.1	40.5	41.1	37.5	43.2	43.2	39.0	36.6	43.5
8000	33.9	37.8	35.2	35.6	35.3	35.1	29.0	32.2	27.3	28.9	30.2	34.7	30.2	31.9	37.5	37.5	33.2	29.4	38.3
10000	31.9	30.4	26.7	28.6	28.4	29.0	20.2	24.4	19.3	19.1	22.0	25.9	23.5	24.6	31.7	31.0	24.0	20.0	31.9
12500	23.1	21.5	14.3	17.8	17.9	19.5	7.0	15.6	7.4	9.3	11.0	15.6	21.8	15.9	22.7	22.0	14.9	7.4	23.6
16000	9.2	8.7	1.9	6.9	6.8	7.6		6.8			.1	5.3	10.0	7.0	11.6	12.5	5.1		15.5
20000															.6	3.0			7.5
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D9A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:

F-15 AIRCRAFT IN THE

TEXAS ASE HUSH HOUSE

OPERATION:

AFTERBURNER POWER (92%)

SINGLE ENGINE

GROUND RUNUP IN THE

TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

AIRCRAFT CODE 704

OPERATION CODE 00103

PROFILE VERSION A

20 NOV 81

PAGE F1

IDENTIFICATIONS:

OMEGA 8.2

TEST BF-704-001

RUN 04

ANGLE (DEGREES)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

200 81.9 61.0 79.2 79.7 79.3 79.1 79.2 76.8 74.9 75.0 76.8 79.4 79.1 77.1 81.0 80.2 78.2 77.3 79.8

250 79.8 73.9 77.1 77.6 77.2 77.0 77.1 74.7 72.6 70.7 71.6 72.7 75.3 75.0 73.0 76.9 76.0 74.1 73.2 77.7

315 77.7 76.8 74.9 75.5 75.1 74.9 71.0 72.6 70.7 71.6 72.7 75.3 75.0 73.0 76.9 76.0 74.1 73.2 75.7

400 75.6 74.6 72.8 73.3 72.9 72.7 68.8 70.5 68.5 69.5 70.5 73.1 72.9 70.9 74.8 73.9 72.0 71.1 73.6

500 73.4 72.4 70.0 71.2 70.7 70.5 66.6 68.3 66.3 67.3 68.4 71.0 70.7 68.7 72.0 71.8 69.8 68.9 71.4

630 71.1 70.1 60.3 60.9 60.5 60.3 64.3 66.0 64.0 65.0 66.1 68.7 63.5 66.5 70.3 69.5 67.6 66.7 69.3

800 68.8 67.8 66.0 66.6 66.2 66.0 62.0 63.7 61.7 62.6 63.7 65.1 64.1 68.0 67.3 65.3 64.3 67.1

1000 66.4 65.4 63.6 64.2 63.8 63.7 59.5 61.3 59.3 60.2 61.2 63.9 63.7 61.7 65.6 64.9 62.9 61.3 64.8

1250 63.9 62.9 61.1 61.7 61.3 61.2 57.1 58.9 56.7 57.6 58.6 61.3 61.2 59.2 63.1 62.5 60.4 59.2 62.5

1600 61.3 60.3 58.5 59.1 58.8 58.7 54.5 56.3 54.1 54.8 55.8 58.6 58.6 56.5 60.4 59.9 57.7 56.4 60.0

2000 58.5 57.6 55.7 56.3 56.1 56.0 51.7 53.5 51.2 51.9 52.9 55.7 55.8 53.7 57.0 57.1 54.7 53.4 57.3

2500 55.6 54.5 52.7 53.4 53.2 53.2 48.7 50.6 48.2 48.8 49.7 52.5 52.7 50.5 54.5 54.2 51.5 50.1 54.4

3150 52.3 51.3 49.5 50.1 50.0 50.1 45.5 47.4 45.0 45.4 46.3 49.1 43.3 47.1 51.2 50.9 47.9 46.3 51.3

4000 48.7 47.6 45.9 46.5 46.5 46.6 42.0 43.8 41.4 41.7 42.6 45.4 45.0 43.4 47.6 47.4 44.1 42.3 47.7

5000 44.7 43.6 41.9 42.5 42.5 42.7 38.0 39.8 37.4 37.7 38.6 41.3 41.5 39.3 43.6 43.3 39.9 38.3 43.7

6300 40.3 39.2 37.5 38.2 38.2 38.4 33.7 35.5 33.0 33.4 34.2 36.3 37.1 34.9 39.2 39.0 35.5 33.3 39.4

8000 35.9 34.8 33.1 33.6 34.0 34.2 29.5 31.5 29.0 29.4 30.4 32.8 33.3 31.2 35.2 35.2 31.8 30.2 35.7

10000 31.2 30.1 28.3 29.2 29.3 29.7 24.9 27.2 24.7 25.2 26.3 28.4 29.1 27.2 31.0 31.2 28.1 26.4 31.7

12500 26.1 25.1 23.1 24.1 24.3 24.7 20.0 22.6 20.1 20.7 21.9 23.8 24.7 23.0 26.5 26.8 24.3 22.6 27.5

16000 20.7 19.8 17.6 18.8 19.0 19.4 14.8 17.8 15.4 16.0 17.5 19.1 20.1 16.3 21.8 22.4 20.6 18.9 23.1

20000 15.1 14.2 11.9 13.2 13.3 13.7 9.7 12.9 10.7 11.5 13.1 14.5 15.4 14.5 17.2 18.0 17.2 15.4 18.7

25000 9.4 8.5 5.1 7.5 7.6 7.9 5.2 8.3 6.4 7.3 8.9 10.3 10.7 10.7 13.0 14.0 14.1 12.2 14.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-15 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
AFTERBURNER POWER (92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 8F-704-001																			
RUN 04																			
AIRCRAFT CODE 704																			
OPERATION CODE 00103																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE G1																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.1	82.4	80.4	80.0	80.3	80.2	75.2	78.6	74.9	75.8	76.6	80.0	73.1	77.1	81.7	80.2	76.2	77.3	80.9
250	81.0	80.3	78.3	78.7	78.2	78.1	73.1	76.5	72.8	73.7	74.7	77.9	77.1	75.0	79.0	78.1	76.1	75.3	78.8
315	78.9	78.2	76.2	76.5	76.1	76.0	71.0	74.4	70.7	71.6	72.7	75.8	75.0	73.0	77.5	76.0	74.1	73.2	76.7
400	76.6	76.0	74.0	74.4	74.0	73.8	68.8	72.2	68.5	69.2	70.5	73.7	72.9	70.3	75.4	73.9	72.0	71.1	74.5
500	74.6	73.8	71.8	72.2	71.8	71.7	66.8	70.0	66.3	67.3	68.4	71.5	70.7	68.7	73.3	71.8	69.8	68.9	72.5
630	72.3	71.5	69.5	69.9	69.5	69.4	64.3	67.8	64.0	65.0	66.1	69.2	68.5	66.5	71.0	69.5	67.6	66.7	70.3
800	70.0	69.2	67.2	67.6	67.2	67.1	62.0	65.5	61.7	62.6	63.7	66.9	66.1	64.1	68.7	67.3	65.3	64.3	68.1
1000	67.6	66.8	64.8	65.2	64.9	64.8	59.8	63.1	59.3	60.2	61.2	64.4	63.7	61.7	66.3	64.9	62.9	61.9	65.9
1250	65.1	64.3	62.3	62.7	62.4	62.3	57.1	60.6	56.7	57.6	58.6	61.8	61.2	59.2	63.7	62.3	60.4	59.2	63.5
1500	62.5	61.7	59.7	60.1	59.8	59.8	54.5	58.0	54.1	54.8	55.8	59.1	58.6	56.5	61.1	59.9	57.7	56.4	61.1
2000	59.8	58.9	56.9	57.4	57.1	57.1	51.7	55.3	51.2	51.9	52.9	56.2	55.8	53.7	58.3	57.1	54.7	53.4	58.4
2500	56.8	55.9	54.0	54.4	54.2	54.3	48.7	52.4	48.2	48.8	49.7	53.0	52.7	50.6	55.2	54.2	51.5	50.1	55.5
3150	53.5	52.7	50.7	51.1	51.1	51.2	45.2	49.2	45.0	45.4	46.3	49.6	49.3	47.1	51.9	50.9	47.9	46.5	52.3
4000	49.7	48.8	46.9	47.4	47.3	47.5	42.0	45.2	41.4	41.7	42.6	45.8	45.6	43.4	48.1	47.4	44.1	42.5	48.6
5000	45.4	44.4	42.5	43.2	43.2	43.4	38.0	40.9	37.4	37.7	38.6	41.5	41.5	39.3	44.0	43.3	39.9	38.3	44.4
6300	40.8	39.7	38.0	38.6	38.6	38.8	33.7	36.2	33.0	33.4	34.2	37.1	37.1	34.9	39.5	39.0	35.5	33.9	39.9
8000	36.2	35.1	33.3	34.0	34.2	34.4	29.5	31.8	29.0	29.4	30.4	32.9	33.3	31.2	35.4	35.2	31.8	30.2	35.9
10000	31.2	30.1	28.3	29.2	29.3	29.7	24.9	27.2	24.7	25.2	26.3	28.4	29.1	27.2	31.0	31.2	28.1	26.4	31.7
12500	26.1	25.1	23.1	24.1	24.3	24.7	20.0	22.0	20.1	20.7	21.9	23.8	24.7	23.0	26.5	26.8	24.3	22.6	27.5
16000	20.7	19.8	17.6	18.8	19.0	19.4	14.8	17.8	15.4	16.0	17.5	19.1	20.1	18.8	21.8	22.4	20.6	18.9	23.1
20000	15.1	14.2	11.9	13.2	13.3	13.7	9.7	12.9	10.7	11.5	13.1	14.5	15.4	14.5	17.2	18.0	17.2	15.4	18.7
25000	9.4	8.5	6.1	7.5	7.6	7.9	5.2	8.3	6.4	7.3	8.9	10.3	10.7	10.7	13.0	14.0	14.1	12.2	14.7

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8.2

TEST 8F-784-001

RUN 04

AIRCRAFT CODE 704

OPERATION CODE 00103

PROFILE VERSION A

20 NOV 81

PAGE J1

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

KEL HUMID = 70 %

DELTA N = 0.0 DB

NOISE SOURCE/SUBJECT:

F-15 AIRCRAFT IN THE

TEXAS ASE HUSH HOUSE

OPERATION:

AFTERBURNER POWER (92%)

SINGLE ENGINE

GROUND RUNUP IN THE

TEXAS ASE HUSH HOUSE

	0	10	20	30	40	50	60	70	80	90	100
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-15 A/C)

JJRING GROUND RUN-JP OPERATIONS

TEST BF-705-001
AIRCRAFT CODE: 705
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 0.2

Power Setting

Page

Idle Power, 68% RPM	50
Engine Runup, 80% RPM	64
Military Power, 92% RPM	70
Afterburner Power, 92% RPM	75

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE PATTERNS MEDICAL AIR FORCE LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST BF-705-001																		
RUN 01																		
AIRCRAFT CODE 705																		
OPERATION CODE 00113																		
F-16 AIRCRAFT IN THE																		
IDLE POWER (66%)																		
TEMP = 59 F																		
TEXAS ASE HUSH HOUSE																		
SINGLE ENGINE																		
BAR PRESS = 29.92 IN HG																		
GROUND RUNUP IN THE																		
REL HUMID = 70 %																		
TEXAS ASE HUSH HOUSE																		
DELTA N = 0.0 DB																		
PAGE C3																		
METEOROLOGY:																		
ANGLE (DEGREES)																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	42<	45<	42<	47<	61	42<	43<	42<	39<	36<	65<	68	64	60	60	60	60	60
63	42<	45<	42<	47<	60<	42<	43<	42<	38<	36<	65	67	63<	59<	59<	59<	59<	59<
80	42<	45<	42<	47<	59<	42<	43<	42<	38<	36<	63<	65<	61<	58<	58<	58<	58<	58<
100	42<	45<	42<	47<	58<	42<	43<	42<	38<	36<	61<	63<	59<	57<	57<	57<	57<	57<
125	42<	45<	42<	47<	56<	42<	43<	42<	38<	36<	60<	62<	58<	55<	55<	55<	55<	55<
160	42<	45<	42<	47<	55<	42<	43<	42<	38<	36<	58<	60<	56<	54<	54<	54<	54<	54<
200	42<	45<	42<	47<	54<	42<	43<	42<	38<	36<	56<	58<	54<	53<	53<	53<	53<	53<
250	42<	45<	42<	47<	53<	42<	43<	42<	38<	36<	55<	56<	53<	52<	52<	52<	52<	52<
315	42<	45<	42<	47<	52<	42<	43<	42<	38<	36<	53<	54<	51<	50<	50<	50<	50<	50<
400	42<	45<	42<	47<	50<	42<	43<	42<	38<	36<	51<	52<	49<	49<	49<	49<	49<	49<
500	42<	45<	42<	47<	49<	42<	43<	42<	38<	36<	49<	50<	48<	48<	48<	48<	48<	48<
630	42<	45<	42<	47<	48<	42<	43<	42<	38<	36<	48<	48<	46<	47<	47<	47<	47<	47<
800	42<	45<	42<	47<	47<	42<	43<	42<	38<	36<	46<	46<	44<	45	45	45	45	45
1000	42	45<	42<	47<	46<	42<	43<	42<	38<	36<	44<	44<	42	48	48	48	48	48
1250	49	49	42	47<	44	42	43<	42<	38<	36<	42<	42	42	47	47	47	47	47
1600	51	49	48	47	47	44	43	42<	38<	36<	41<	40<	42	47	47	47	47	47
2000	43	50<	48<	47<	48<	46<	45<	42<	38<	36<	39<	38<	41<	46	46	46	46	46
2500	49	51	49	47	49	48	47	38<	36<	37<	36<	36<	40	44	44	44	44	44
3150	47	49	46	44	45	44	44	38	36	35<	34<	34<	38	41	41	41	41	41
4000	44	45	39	36	36	37	38	35	35<	34<	32<	34	37	37	37	37	37	37
5000	48	46	42	43	40	40	39	42	38	34	32<	30	33	35	35	35	35	35
6300	40	43	40	41	39	38	35	37	33	29	30<	30	30	31	31	31	31	31
8000	45	42	39	35	38	36	35	38	35	32	29	32	31	31	31	31	31	31
10000	39	35	32	33	30	29	28	32	30	28	27	29	27	25<	25<	25<	25<	25<
OVERALL	59	60	57	60	63	56	55	55	51	49	71	73	63	67	67	67	67	67

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS A&E HUSH HOUSE																			
OPERATION: () IDLE POWER (68%) () SINGLE ENGINE () GROUND RUNUP IN THE TEXAS A&E HUSH HOUSE																			
METEOROLOGY: () TEMP = 59 F () BAK PRESS =29.92 IN HG () REL HUMID = 70 % () DELTA N = 0.0 DB																			
IDENTIFICATION: () OMEGA 6.2 () TEST BF-705-001 () RUN 01 () AIRCRAFT CODE 705 () OPERATION CODE 00113 () PROFILE VERSION A () 20 NOV 81 () PAGE D3																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.4	74.0	72.1	72.7	74.8	70.7	70.2	68.1	64.2	61.7	71.4	72.6	70.5	72.1	72.1	72.1	72.1	72.1	72.1
250	71.1	72.3	69.8	70.4	72.5	68.4	67.8	65.7	61.8	59.3	69.1	70.3	68.3	69.8	69.8	69.8	69.8	69.8	69.8
315	68.7	69.9	67.4	68.0	70.2	66.0	65.5	63.3	59.3	56.7	66.0	67.9	65.9	67.5	67.5	67.5	67.5	67.5	67.5
400	66.1	67.4	64.9	65.5	67.7	63.5	62.9	60.7	56.6	53.9	64.4	65.4	63.4	65.1	65.1	65.1	65.1	65.1	65.1
500	63.5	64.8	62.3	62.9	65.2	60.9	60.3	58.0	53.8	50.9	61.9	62.9	60.8	62.6	62.6	62.6	62.6	62.6	62.6
630	60.6	62.1	59.5	60.2	62.4	58.1	57.6	55.1	50.7	47.5	59.3	60.2	58.0	59.8	59.8	59.8	59.8	59.8	59.8
800	57.7	59.2	56.6	57.2	59.5	55.1	54.5	52.0	46.3	43.9	56.4	57.4	55.0	56.9	56.9	56.9	56.9	56.9	56.9
1000	54.4	56.0	53.3	54.0	56.3	51.9	51.3	48.4	43.2	40.0	53.2	54.3	51.7	53.7	53.7	53.7	53.7	53.7	53.7
1250	50.8	52.6	49.9	50.5	52.8	48.4	47.7	44.5	38.5	35.8	49.9	50.9	48.4	50.1	50.1	50.1	50.1	50.1	50.1
1500	46.8	48.6	45.7	46.4	48.7	44.1	43.6	40.1	34.5	30.3	46.1	47.2	44.4	46.1	46.1	46.1	46.1	46.1	46.1
2000	42.3	44.1	41.2	41.9	44.0	39.0	38.7	35.4	27.9	21.5	42.0	42.9	39.9	41.5	41.5	41.5	41.5	41.5	41.5
2500	37.1	38.9	35.9	36.9	38.7	33.9	33.2	28.6	17.9	9.0	36.1	37.5	34.1	36.0	36.0	36.0	36.0	36.0	36.0
3150	30.5	32.7	28.7	30.6	32.5	28.5	28.3	18.7	8.0		27.2	28.9	25.2	29.3	29.3	29.3	29.3	29.3	29.3
4000	20.8	23.7	18.1	21.8	23.3	14.4	12.4	8.7			19.0	19.9	14.7	21.9	21.9	21.9	21.9	21.9	21.9
5000	10.1	9.3	7.5	13.0	6.8	2.3					7.0	8.0	3.2	14.0	14.6	14.6	14.6	14.6	14.6
6300				4.2										7.2	7.2	7.2	7.2	7.2	7.2
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
F-16 AIRCRAFT IN THE																				
TEXAS ASE HUSH HOUSE																				
OPERATIONS:																				
IDLE POWER (68%)																				
SINGLE ENGINE																				
GROUND RUNUP IN THE																				
TEXAS ASE HUSH HOUSE																				
METEOROLOGY:																				
TEMP = 53 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 9F-705-001																				
RUN 01																				
AIRCRAFT CODE 705																				
OPERATION CODE 08113																				
PROFILE VERSION A																				
20 NOV 81																				
PAGE E3																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
75.6	74.0	72.1	74.0	74.8	70.7	71.2	69.5	65.6	62.2	71.4	72.6	70.5	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
73.2	72.3	69.8	71.6	72.5	68.4	68.9	67.1	63.2	59.8	69.1	70.3	68.3	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
70.8	69.9	67.4	69.3	70.2	66.0	66.5	64.7	60.7	57.2	66.6	67.9	65.9	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
68.2	67.4	64.9	66.8	67.7	63.5	64.0	62.1	58.0	54.4	64.4	65.4	63.4	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
65.6	64.8	62.3	64.2	65.2	60.9	61.4	59.4	55.1	51.4	61.9	62.9	60.8	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
62.7	62.1	59.5	61.5	62.4	58.1	58.6	56.5	51.9	48.0	59.3	60.2	58.0	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
59.8	59.2	56.6	58.5	59.5	55.1	55.6	53.4	48.3	44.4	56.4	57.4	55.0	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
56.5	56.0	53.3	55.3	56.3	51.9	52.4	49.8	44.6	40.5	53.2	54.3	51.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
53.0	52.6	49.9	51.8	52.8	48.4	48.7	45.9	40.3	36.3	49.9	50.9	48.4	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
48.9	48.6	45.7	47.7	48.7	44.1	44.7	41.5	35.9	30.8	46.1	47.2	44.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
44.4	44.1	41.2	43.2	44.0	39.6	39.8	36.8	29.3	22.0	42.0	42.9	39.9	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
39.2	38.9	35.6	38.2	38.7	33.9	34.2	30.0	19.3	9.5	36.1	37.5	34.1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
32.6	32.7	28.7	31.5	32.5	26.5	27.4	20.1	9.3		27.2	28.9	26.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
4000	22.5	23.7	18.1	22.8	23.3	14.4	13.3	9.6		19.0	19.9	17.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
5000	11.3	9.3	7.5	13.7	6.8	2.3				7.0	8.0	3.2	14.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6
6000	.2		4.7										7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
10000																				
12500																				
16000																				
20000																				
25000																				

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-16 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
IDLE POWER (68%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
TEMP = 59 F																			
B.R. PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 Db																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	60.6	61.0	59.7	59.5	60.3	56.9	56.2	55.0	51.1	48.8	58.5	59.4	57.3	59.1	59.1	59.1	59.1	59.1	59.1
250	58.3	58.8	56.5	57.3	58.2	54.7	54.3	52.8	48.9	46.5	56.5	57.3	55.2	57.0	57.0	57.0	57.0	57.0	57.0
315	56.0	56.5	54.2	55.1	56.0	52.5	52.1	50.6	46.6	44.3	54.4	55.3	53.1	54.9	54.9	54.9	54.9	54.9	54.9
400	53.6	54.2	51.9	52.9	53.8	50.2	49.8	48.3	44.3	42.0	52.3	53.2	51.0	52.7	52.7	52.7	52.7	52.7	52.7
500	51.2	51.8	49.5	50.6	51.5	47.8	47.5	45.9	41.9	39.6	50.1	51.0	48.8	50.5	50.5	50.5	50.5	50.5	50.5
530	48.6	49.3	47.1	48.3	49.2	45.4	45.1	43.5	39.5	37.2	47.9	48.7	46.5	48.2	48.2	48.2	48.2	48.2	48.2
800	46.0	46.7	44.5	45.9	46.8	42.9	42.6	41.0	37.0	34.7	45.5	46.4	44.1	45.8	45.8	45.8	45.8	45.8	45.8
1000	43.3	44.1	41.9	43.4	44.3	40.3	40.0	38.4	34.4	32.1	43.1	44.0	41.7	43.4	43.4	43.4	43.4	43.4	43.4
1250	40.5	41.3	39.1	40.6	41.6	37.2	37.3	35.8	31.7	29.4	40.5	41.3	39.1	40.8	40.8	40.8	40.8	40.8	40.8
1600	37.6	38.3	36.1	38.0	38.9	34.6	34.5	33.0	28.9	26.6	37.8	38.6	36.3	38.1	38.1	38.1	38.1	38.1	38.1
2000	34.5	35.3	33.0	35.2	36.0	31.5	31.5	30.1	26.0	23.8	34.9	35.7	33.5	35.3	35.3	35.3	35.3	35.3	35.3
2500	31.2	32.0	29.6	32.2	32.8	28.3	28.3	27.0	22.9	20.7	31.7	32.4	30.3	32.1	32.1	32.1	32.1	32.1	32.1
3150	27.7	28.4	26.0	28.6	29.3	24.7	24.8	23.7	19.5	17.3	28.2	28.8	26.8	28.7	28.7	28.7	28.7	28.7	28.7
4000	23.8	24.5	22.0	25.2	25.4	20.8	21.0	20.0	15.9	13.6	24.4	24.8	22.9	25.0	25.0	25.0	25.0	25.0	25.0
5000	19.6	20.2	17.8	21.1	21.2	16.5	16.9	15.9	11.8	9.6	20.1	20.6	18.7	20.9	20.9	20.9	20.9	20.9	20.9
6300	14.9	15.5	12.8	16.7	16.6	11.9	12.4	11.5	7.4	5.1	15.7	16.1	14.2	16.5	16.5	16.5	16.5	16.5	16.5
8000	10.0	11.0	8.1	12.5	12.6	7.5	8.1	7.3	3.2	.9	12.1	12.6	10.5	12.3	12.3	12.3	12.3	12.3	12.3
10000	4.7	6.3	3.1	7.9	8.4	2.8	3.3	2.7			8.2	8.8	2.2	7.9	7.9	7.9	7.9	7.9	7.9
12500		1.2		3.0	3.9						4.1	4.8	2.3	3.1	3.1	3.1	3.1	3.1	3.1
16000											.7								
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	62.7	61.0	58.7	60.6	60.3	56.9	57.9	56.4	52.5	49.3	48.5	59.4	57.3	59.1	59.1	59.1
250	60.4	58.8	56.5	58.6	58.2	54.7	55.4	54.2	50.3	47.1	56.5	57.3	55.2	57.0	57.0	57.0
315	58.1	56.5	54.2	56.4	56.0	52.5	53.2	52.0	48.0	44.8	54.4	55.3	53.1	54.9	54.9	54.9
400	55.7	54.2	51.9	54.2	53.8	50.2	50.9	49.7	45.7	42.5	52.3	53.2	51.0	52.7	52.7	52.7
500	53.3	51.8	49.6	51.9	51.5	47.8	48.5	47.3	43.3	40.1	50.1	51.0	48.8	50.5	50.5	50.5
630	50.8	49.3	47.1	49.6	49.2	45.4	46.1	44.9	40.9	37.7	47.9	48.7	46.5	48.2	48.2	48.2
800	48.1	46.7	44.5	47.1	46.8	42.9	43.6	42.4	38.3	35.2	45.5	46.4	44.1	45.8	45.8	45.8
1000	45.4	44.1	41.9	44.6	44.3	40.3	41.0	39.8	35.8	32.6	43.1	44.0	41.7	43.4	43.4	43.4
1250	42.6	41.3	39.1	42.0	41.6	37.5	38.3	37.2	33.1	29.9	40.5	41.3	39.1	40.8	40.8	40.8
1500	39.7	38.3	36.1	39.3	38.9	34.6	35.5	34.4	30.3	27.2	37.8	38.6	36.3	38.1	38.1	38.1
2000	36.6	35.3	33.0	36.5	36.0	31.5	32.5	31.5	27.4	24.3	34.9	35.7	33.5	35.3	35.3	35.3
2500	33.3	32.0	29.6	33.4	32.8	28.3	29.3	28.4	24.3	21.2	31.7	32.4	30.3	32.1	32.1	32.1
3150	29.8	28.4	26.0	30.1	29.3	24.7	25.9	25.1	20.9	17.8	28.2	28.8	26.7	28.7	28.7	28.7
4000	25.5	24.5	22.0	26.2	25.4	20.8	21.9	21.1	17.0	14.1	24.4	24.8	22.9	25.0	25.0	25.0
5000	20.8	20.2	17.6	21.9	21.2	16.5	17.5	16.8	12.6	9.9	20.1	20.6	18.7	20.9	20.9	20.9
6300	15.7	15.5	12.8	17.2	16.6	11.9	12.8	12.1	7.9	5.3	15.7	16.1	14.2	16.5	16.5	16.5
8000	10.4	11.0	8.1	12.7	12.6	7.5	8.3	7.6	3.4	1.0	12.1	12.6	10.5	12.3	12.3	12.3
10000	4.7	6.3	3.1	7.9	8.4	2.8	3.5	2.7			8.2	8.8	6.5	7.9	7.9	7.9
12500		1.2		3.0	3.9						4.1	4.8	2.3	3.1	3.1	3.1
15000																
20000																
25000																

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 ((DISTANCE = 250 FEET
 ((IDENTIFICATION:
 ((OMEGA 8.2
 ((TEST 9F-705-001
 ((RUN 01
 (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (AIRCRAFT CODE 705
 (F-16 AIRCRAFT IN THE (IDLE POWER (68%) (TEMP = 59 F (OPERATION CODE 00113
 (TEXAS ASE HUSH HOUSE (SINGLE ENGINE (BAR PRESS = 29.92 IN HG (PROFILE VERSION A
 ((GROUND RUNUP IN THE (REL HUMID = 70 % (20 NOV 81
 ((TEXAS ASE HUSH HOUSE (DELTA N = 0.0 DB (PAGE J3
 (

	P=MLT											A=AL	I=ALT											
	-20	-10	0	10	20	30	40	50	60	70	80		-20	-10	0	10	20	30	40	50	60	70	80	
A
N
G
L
E
I
N
D
E
G
K
E
S
100
110
120
130
140
150
160
170
180

NOISE LEVEL IN PNDB UK DBA

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 705																			
F-16 AIRCRAFT IN THE (80% RPM) TEMP = 59 F) OPERATION CODE 00119																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	61	42<	43<	45<	60	60	61	65	62	60	64	63	67	67	67	67	67	67	67
63	60<	42<	43<	45<	59<	58<	59<	63<	59<	60<	62<	62<	65<	65<	65<	65<	65<	65<	65<
80	58<	42<	43<	45<	57<	57<	58<	61<	59<	59<	60<	60<	64<	64<	64<	64<	64<	64<	64<
100	57<	42<	43<	45<	56<	56<	57<	60<	56<	57<	59<	58<	62<	62<	62<	62<	62<	62<	62<
125	55<	42<	43<	45<	55<	54<	56<	58<	54<	56<	57<	57<	60<	60<	60<	60<	60<	60<	60<
160	54<	42<	43<	45<	53<	53<	54<	57<	53<	54<	55<	55<	59<	59<	59<	59<	59<	59<	59<
200	53<	42<	43<	45<	52<	51<	53<	55<	51<	52<	54<	53<	57<	57<	57<	57<	57<	57<	57<
250	51<	42<	43<	45<	51<	50<	52<	53<	50<	51<	52<	52<	55<	55<	55<	55<	55<	55<	55<
315	50<	42<	43<	45<	49<	49<	51<	52<	48<	49<	50<	50<	54<	54<	54<	54<	54<	54<	54<
400	48<	42<	43<	45<	48<	47<	49<	50<	47<	47<	49<	49<	52<	52<	52<	52<	52<	52<	52<
500	47<	42<	43<	45<	47<	46<	48<	48<	45<	46<	47<	47<	50<	50<	50<	50<	50<	50<	50<
630	45	42<	43<	45	45<	44<	47<	47<	44<	44<	46<	45	49	49	49	49	49	49	49
800	43	42<	43<	44	44<	43<	46<	45<	42<	42<	44<	43	52	52	52	52	52	52	52
1000	42	42	43<	43	43	41	44<	43<	41<	41<	42<	40	54	54	54	54	54	54	54
1250	48	46	43	45	46	45	43<	42<	39<	39<	41<	50	54	54	54	54	54	54	54
1600	49	48	46	46	46	43	42	40<	38<	38<	39<	50	56	56	56	56	56	56	56
2000	44	43	44<	42<	44<	41<	40<	39<	36<	36<	37<	49	54	54	54	54	54	54	54
2500	40<	41<	41<	39	41<	39<	38<	37<	35<	35<	36<	46	48	48	48	48	48	48	48
3150	36<	40<	39<	38<	39<	37<	35<	35<	37<	33<	34<	43	45	45	45	45	45	45	45
4000	33	38<	36<	37<	36<	35<	33<	34	36<	31<	32<	40	41	41	41	41	41	41	41
5000	39	36	34	36	34	33	31	36	34	29<	31	33	38	38	38	38	38	38	38
6300	38	35	35	36	33	33	30	35	33	28	30	36	36	36	36	36	36	36	36
8000	33	31	30	33	31	30	29	34	32	31	32	33	34	34	34	34	34	34	34
10000	32	28	30	30	29	27	26	30	29	26	31	28	30	30	30	30	30	30	30
OVERALL	67	56	56	57	66	65	67	70	68	66	67	69	72	72	72	72	72	72	72

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
F-16 AIRCRAFT IN THE										OMEGA 8.2									
TEXAS ASE HUSH HOUSE										TEST BF-705-001									
(OPERATIONS:										RUN 02									
(80% RPM										AIRCRAFT CODE 705									
(SINGLE ENGINE										OPERATION CODE 00119									
(GROUND RUNUP IN THE										PROFILE VERSION A									
(TEXAS ASE HUSH HOUSE										20 NOV 81									
TEMP = 59 F										PAGE F4									
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTAN = 0.0 DB																			
METEORLOGY:																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	58.4	56.2	55.6	55.9	57.6	56.1	57.1	57.6	57.3	54.3	54.9	56.4	60.8	65.1	65.1	65.1	65.1	65.1	65.1
250	56.3	54.0	53.5	53.8	55.5	54.0	55.0	55.5	55.3	52.2	52.8	54.3	58.7	63.0	63.0	63.0	63.0	63.0	63.0
315	54.2	51.9	51.3	51.6	53.3	51.9	52.9	53.4	53.2	50.1	50.7	52.2	56.6	60.9	60.9	60.9	60.9	60.9	60.9
400	52.0	49.6	49.1	49.4	51.2	49.7	50.8	51.3	51.0	48.0	48.6	50.1	54.4	58.7	58.7	58.7	58.7	58.7	58.7
500	49.8	47.4	46.8	47.2	48.9	47.5	48.6	49.1	48.8	45.8	46.4	47.9	52.2	56.5	56.5	56.5	56.5	56.5	56.5
630	47.5	45.0	44.5	44.9	46.6	45.2	46.4	46.9	46.6	43.6	44.2	45.7	49.9	54.2	54.2	54.2	54.2	54.2	54.2
800	45.1	42.6	42.1	42.5	44.3	42.9	44.1	44.5	44.3	41.3	41.8	43.4	47.5	51.8	51.8	51.8	51.8	51.8	51.8
1000	42.7	40.2	39.7	40.1	41.8	40.4	41.7	42.1	41.8	38.8	39.4	40.9	45.0	49.4	49.4	49.4	49.4	49.4	49.4
1250	40.1	37.6	37.1	37.6	39.2	37.9	39.1	39.5	39.3	36.3	36.8	38.3	42.4	46.8	46.8	46.8	46.8	46.8	46.8
1600	37.4	34.9	34.4	34.9	36.5	35.2	36.5	36.8	36.6	33.6	34.1	35.6	39.7	44.1	44.1	44.1	44.1	44.1	44.1
2000	34.6	32.0	31.6	32.2	33.7	32.3	33.8	34.0	33.8	30.8	31.3	32.8	36.8	41.2	41.2	41.2	41.2	41.2	41.2
2500	31.4	28.9	28.5	29.2	30.6	29.2	30.7	30.8	30.7	27.6	28.1	29.6	33.7	38.1	38.1	38.1	38.1	38.1	38.1
3150	28.0	25.6	25.2	25.9	27.1	25.8	27.3	27.3	27.3	24.2	24.7	26.2	30.3	34.7	34.7	34.7	34.7	34.7	34.7
4000	24.2	21.9	21.6	22.3	23.3	22.0	23.6	23.5	23.5	20.4	20.8	22.3	25.6	31.0	31.0	31.0	31.0	31.0	31.0
5000	20.1	17.8	17.5	18.2	19.1	17.8	19.5	19.3	19.4	16.2	16.6	18.1	22.6	27.0	27.0	27.0	27.0	27.0	27.0
6300	15.6	13.3	13.0	13.8	14.7	13.3	15.1	14.9	15.0	11.8	12.2	13.7	19.2	22.5	22.5	22.5	22.5	22.5	22.5
8000	11.3	8.7	8.7	9.6	10.6	9.3	11.3	11.2	11.2	8.1	8.6	10.0	13.8	18.0	18.0	18.0	18.0	18.0	18.0
10000	6.8	3.8	4.0	5.0	6.2	5.1	7.2	7.3	7.2	4.1	4.6	6.1	9.1	13.2	13.2	13.2	13.2	13.2	13.2
12500	2.0			.1	1.7	.6	2.8	3.1	2.9		.4	1.9	4.1	6.0	6.0	6.0	6.0	6.0	6.0
16000														2.6	2.6	2.6	2.6	2.6	2.6
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
(80% RPM
(SINGLE ENGINE
(GROUND RUNUP IN THE
(TEXAS ASE HUSH HOUSE

METEOROLOGY:
(TEMP = 59 F
(BAR PRESS = 29.92 IN HG
(REL HUMID = 70 %
(DELTA N = 0.0 08

IDENTIFICATION:

OMEGA 8.2
TEST BF-705-001

RUN 02

AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J4

P=PNLT

A=AL

T=ALT

	-20	-10	0	10	20	30	40	50	60	70	80
0
10	AT.	.	P.
20	AT	.	P
30	X	.	P
40	X	.	P
50	X	.	P
60	X	.	P
70	X	.	P
80	X	.	P
90	X	.	P
100	X	.	P
110	X	.	P
120	X	.	P
130	X	.	P
140	X	.	P
150	X	.	P
160	X	.	P
170	X	.	P
180	X	.	P

NOISE LEVEL IN PNDB OR DBA

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:		
1/3 OCTAVE BAND																	) OMEGA 8.2		
DISTANCE = 250 FEET																	) TEST BF-705-001		
																	) RUN 03		
NOISE SOURCE/SUBJECT:																	) AIRCRAFT CODE 705		
F-16 AIRCRAFT IN THE																	) TEMP = 59 F		
TEXAS ASE HUSH HOUSE																	) MILITARY POWER(92%)		
																	) SINGLE ENGINE		
																	) BAR PRESS = 29.92 IN HG		
																	) REL HUMID = 70 %		
																	) GROUND RUNUP IN THE		
																	) TEXAS ASE HUSH HOUSE		
																	) DELTA N = 0.0 DB		
																	) PAGE C2		
BAND CENTER																			
FREQ (HZ)																	ANGLE (DEGREES)		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	70	69	70	70	74	74	74	75	74	73	73	72	76	78	78	78	78	78	78
63	65	66	68	68	72	65	65	69	70	69	72	74	75	71	71	71	71	71	71
80	65	64	66	66	70	64	64	66	63	69	67	68	70	70	70	70	70	70	70
100	65	62	63	64	69	63	63	65	66	65	67	68	69	67	67	67	67	67	67
125	65	60	61	62	67	62	61	64	63	63	65	66	68	68	68	68	68	68	68
160	60	58	58	60	66	62	60	63	61	60	63	63	67	69	69	69	69	69	69
200	58	55	56	58	64	61	59	62	58	60	65	62	63	71	71	71	71	71	71
250	55	53	54	56	62	60	58	61	55	56	60	63	66	68	68	68	68	68	68
315	52	51	51	54	61	59	57	60	53	51	54	56	58	62	62	62	62	62	62
400	56	52	51	51	59	58	56	59	50	51	51	51	52	58	58	58	58	58	58
500	61	62	55	59	57	57	55	58	48	50	49	50	49	54	54	54	54	54	54
630	60	59	56	58	56	57	55	55	50	50	47	49	49	55	55	55	55	55	55
800	60	58	57	58	57	56	56	56	52	52	49	52	51	59	59	59	59	59	59
1000	59	58	54	57	57	55	53	53	47	48	47	50	49	56	58	58	58	58	58
1250	59	57	54	56	56	55	52	52	48	48	47	51	49	56	58	58	58	58	58
1600	58	56	52	53	54	53	51	49	45	47	47	52	49	58	58	58	58	58	58
2000	52	51	50	51	49	47	48	47	45	46	46	50	47	55	55	55	55	55	55
2500	45	46	45	47	46	44	43	43	42	44	43	46	45	53	53	53	53	53	53
3150	40	40	39	40	40	40	41	46	42	46	42	45	44	51	51	51	51	51	51
4000	37	38	37	38	37	38	40	50	41	43	41	42	42	49	49	49	49	49	49
5000	39	40	37	40	37	38	39	40	41	42	41	40	42	48	48	48	48	48	48
6300	38	39	36	39	37	37	39	47	40	40	40	39	41	45	45	45	45	45	45
8000	37	37	36	38	36	36	37	44	40	40	40	40	40	44	44	44	44	44	44
10000	33	33	32	33	33	34	34	44	37	37	36	36	36	39	39	39	39	39	39
OVERALL	75	74	74	75	79	76	76	78	77	77	78	78	81	81	81	81	81	81	81

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-16 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
MILITARY POWER(92%)																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 8F-705-001																			
RUN 03																			
AIRCRAFT CODE 705																			
OPERATION CODE 00104																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE 02																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.5	78.9	77.0	76.5	80.4	78.4	77.4	80.5	76.2	74.1	76.5	79.1	81.7	85.4	85.4	85.4	85.4	85.4	85.4
250	78.3	76.6	74.7	76.3	73.1	76.1	75.1	78.1	74.1	74.7	76.1	76.8	73.4	83.1	83.1	83.1	83.1	83.1	83.1
315	76.1	74.4	72.4	74.0	75.8	73.9	72.8	75.7	71.7	72.4	73.6	74.5	77.0	80.8	80.8	80.8	80.8	80.8	80.8
400	73.6	72.1	70.1	71.7	73.4	71.5	70.5	73.1	69.2	69.9	71.3	72.1	74.6	78.4	78.4	78.4	78.4	78.4	78.4
500	71.4	69.8	67.7	69.3	71.0	69.1	68.0	70.5	66.7	67.4	68.7	69.7	72.0	75.8	75.8	75.8	75.8	75.8	75.8
630	68.9	67.3	65.1	66.9	68.5	66.6	65.5	67.9	64.0	64.7	66.0	67.0	69.2	73.1	73.1	73.1	73.1	73.1	73.1
800	66.2	64.7	62.4	64.3	65.9	64.0	62.8	65.3	61.2	61.8	63.0	64.1	66.3	70.2	70.2	70.2	70.2	70.2	70.2
1000	63.4	62.0	59.5	61.5	63.3	61.3	59.9	62.5	58.1	58.2	59.8	61.0	63.2	67.2	67.2	67.2	67.2	67.2	67.2
1250	60.4	59.1	56.3	58.5	60.3	58.3	56.9	59.3	54.4	54.7	56.0	57.6	59.7	63.9	63.9	63.9	63.9	63.9	63.9
1600	57.2	56.1	52.8	55.3	57.0	55.1	53.4	56.0	50.3	50.7	51.7	53.7	55.8	60.3	60.3	60.3	60.3	60.3	60.3
2000	53.6	52.8	48.9	51.9	53.4	51.5	49.5	52.3	46.1	46.6	46.9	49.3	50.8	55.5	55.5	55.5	55.5	55.5	55.5
2500	49.6	48.7	44.5	47.6	48.8	46.9	44.9	47.5	41.1	41.8	41.4	44.1	45.2	52.0	52.0	52.0	52.0	52.0	52.0
3150	44.5	43.9	39.2	42.3	43.3	41.5	39.7	41.9	34.0	35.1	34.1	38.3	38.7	46.4	46.4	46.4	46.4	46.4	46.4
4000	39.7	39.1	34.6	37.2	37.1	36.2	34.3	35.3	26.8	28.1	24.4	30.4	23.3	40.5	40.5	40.5	40.5	40.5	40.5
5000	34.3	33.3	28.4	31.2	30.6	29.3	27.8	28.6	15.2	17.2	9.1	21.0	14.4	34.2	34.2	34.2	34.2	34.2	34.2
6300	27.4	26.0	19.0	23.0	21.9	20.3	18.2	19.7	3.7	7.1		6.8		24.0	24.0	24.0	24.0	24.0	24.0
8000	19.1	17.3	7.3	15.1	10.2	11.8	7.3	10.6						12.8	12.8	12.8	12.8	12.8	12.8
10000	9.9	9.3		7.1		3.5		1.6						1.5	1.6	1.6	1.6	1.6	1.6
12500	.8																		
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNL8)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLGY:									
(F-16 AIRCRAFT IN THE TEXAS ASE MUSH HOUSE)										(MILITARY POWER(92%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE MUSH HOUSE)									
										TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	80.5	80.9	77.0	80.1	80.4	78.4	77.4	82.7	77.6	76.3	79.1	79.7	81.7	85.4	85.4	85.4	85.4	85.4	85.4
250	78.3	78.7	74.7	77.8	78.1	76.1	75.1	80.3	75.2	75.9	76.8	77.4	77.4	83.1	83.1	83.1	83.1	83.1	83.1
315	76.1	76.4	72.4	75.6	75.8	73.9	72.8	77.9	72.8	73.2	74.5	75.1	77.0	80.8	80.8	80.8	80.8	80.8	80.8
400	73.8	74.2	70.1	73.3	73.4	71.5	70.5	75.4	70.3	71.1	72.0	72.7	74.6	78.4	78.4	78.4	78.4	78.4	78.4
500	71.4	71.6	67.7	70.9	71.0	69.1	68.0	72.8	67.8	68.5	69.4	70.3	72.0	75.8	75.8	75.8	75.8	75.8	75.8
630	68.9	69.4	65.1	68.2	68.5	66.6	65.5	70.2	65.1	65.8	66.6	67.5	69.2	73.1	73.1	73.1	73.1	73.1	73.1
800	66.2	66.7	62.4	65.9	65.9	64.0	62.8	67.5	62.3	62.9	63.7	64.7	66.3	70.2	70.2	70.2	70.2	70.2	70.2
1000	63.4	64.0	59.5	63.1	63.3	61.3	59.9	64.7	59.2	59.7	60.4	61.6	63.2	67.2	67.2	67.2	67.2	67.2	67.2
1250	60.4	61.2	56.3	60.1	60.3	58.3	56.9	61.6	56.5	55.9	56.7	58.2	59.7	63.9	63.9	63.9	63.9	63.9	63.9
1600	57.2	58.1	52.8	56.9	57.0	55.1	53.4	58.2	51.4	51.9	52.3	54.2	55.6	60.3	60.3	60.3	60.3	60.3	60.3
2000	53.6	54.8	48.9	53.4	53.4	51.5	49.5	54.5	47.2	47.8	47.5	49.8	50.8	56.5	56.5	56.5	56.5	56.5	56.5
2500	49.6	50.7	44.5	49.1	49.8	46.9	44.9	49.2	42.2	43.0	42.0	44.7	45.2	52.0	52.0	52.0	52.0	52.0	52.0
3150	44.5	45.9	39.2	43.9	43.3	41.5	39.7	44.1	35.1	36.2	34.8	38.9	38.7	46.4	46.4	46.4	46.4	46.4	46.4
4000	39.7	40.7	34.6	38.4	37.1	36.2	34.3	37.1	27.7	29.1	24.9	30.8	29.3	40.5	40.5	40.5	40.5	40.5	40.5
5000	34.3	34.5	28.4	32.1	30.6	29.3	27.8	29.9	15.9	17.9	9.5	21.4	14.4	34.2	34.2	34.2	34.2	34.2	34.2
6300	27.4	27.6	19.0	23.7	21.9	20.0	18.2	20.6	4.1	7.6		7.0		24.0	24.0	24.0	24.0	24.0	24.0
8000	19.1	19.7	7.9	15.4	10.2	11.8	7.3	11.1						12.8	12.8	12.8	12.8	12.8	12.8
10000	9.9	9.3		7.1		3.5		1.0						1.5	1.6	1.6	1.6	1.6	1.6
12500	.8																		
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
(NOISE SOURCE/SUBJECT:)										METEOROLOGY:										
(F-16 AIRCRAFT IN THE)										TEMP = 59 F										
(TEXAS ASE HUSH HOUSE)										BAR PRESS = 29.92 IN HG										
()										REL HUMID = 70 %										
()										DELTA N = 0.0 DB										
()										PAGE F2										
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	69.3	67.9	65.1	67.0	67.9	66.5	65.1	66.4	62.1	62.4	63.1	64.7	66.3	70.8	70.8	70.8	70.8	70.8	70.8	
250	67.2	65.8	63.0	64.9	65.8	64.5	63.0	64.3	60.0	60.3	61.0	62.6	64.3	68.7	68.7	68.7	68.7	68.7	68.7	
315	65.1	63.7	60.9	62.9	63.7	62.4	60.9	62.2	57.4	56.2	56.9	58.5	62.2	66.6	66.6	66.6	66.6	66.6	66.6	
400	63.0	61.6	58.8	60.7	61.6	60.3	58.8	60.0	55.7	55.1	56.8	58.4	60.1	64.5	64.5	64.5	64.5	64.5	64.5	
500	60.8	59.4	56.6	58.6	59.4	58.1	56.6	57.8	53.5	53.8	54.5	56.2	57.8	62.2	62.2	62.2	62.2	62.2	62.2	
630	58.6	57.2	54.4	56.4	57.2	55.9	54.4	55.5	51.2	51.5	52.1	53.9	55.4	59.8	59.8	59.8	59.8	59.8	59.8	
800	56.4	55.0	52.1	54.1	54.9	53.6	52.1	53.2	48.9	49.2	49.7	51.4	52.9	57.4	57.4	57.4	57.4	57.4	57.4	
1000	54.0	52.7	49.8	51.8	52.5	51.3	49.7	50.8	46.4	46.7	47.1	48.9	50.2	54.8	54.8	54.8	54.8	54.8	54.8	
1250	51.6	50.3	47.3	49.3	50.0	48.8	47.3	48.3	43.8	44.1	44.3	46.2	47.4	52.1	52.1	52.1	52.1	52.1	52.1	
1500	49.1	47.8	44.8	46.8	47.3	46.3	44.7	45.7	41.1	41.3	41.3	43.3	44.3	49.3	49.3	49.3	49.3	49.3	49.3	
2000	46.5	45.3	42.1	44.2	44.5	43.6	42.0	42.9	38.1	38.4	38.2	40.2	40.9	46.3	46.3	46.3	46.3	46.3	46.3	
2500	43.7	42.5	39.3	41.4	41.5	40.6	39.0	39.9	34.9	35.2	34.7	36.9	37.3	43.0	43.0	43.0	43.0	43.0	43.0	
3150	40.6	39.4	36.2	38.3	38.1	37.4	35.8	36.5	31.5	31.8	31.0	33.3	33.3	39.5	39.5	39.5	39.5	39.5	39.5	
4000	37.2	35.9	32.8	34.9	34.5	33.8	32.3	32.8	27.8	28.2	26.9	29.4	29.4	35.7	35.7	35.7	35.7	35.7	35.7	
5000	33.2	32.0	28.8	31.0	30.4	29.7	28.3	28.7	23.7	24.1	22.7	25.3	24.7	31.6	31.6	31.6	31.6	31.6	31.6	
6300	29.0	27.7	24.6	26.7	26.1	25.4	24.0	24.4	19.3	19.7	18.2	20.8	20.2	27.2	27.2	27.2	27.2	27.2	27.2	
8000	24.9	23.6	20.6	22.7	22.1	21.5	20.1	20.6	15.5	15.9	14.5	16.8	16.0	23.1	23.1	23.1	23.1	23.1	23.1	
10000	20.5	19.5	16.2	18.4	17.8	17.2	15.8	16.5	11.4	11.8	10.6	12.6	12.9	18.7	18.7	18.7	18.7	18.7	18.7	
12500	15.7	14.8	11.5	13.7	13.3	12.6	11.2	12.2	7.1	7.5	6.7	8.3	9.2	14.0	14.0	14.0	14.0	14.0	14.0	
16000	10.5	9.7	6.3	8.6	8.5	7.7	6.2	7.5	2.8	3.0	2.8	4.1	5.6	9.3	9.3	9.3	9.3	9.3	9.3	
20000	4.8	4.1	.8	3.0	3.6	2.5	1.0	2.6				.1	2.1	4.7	4.7	4.7	4.7	4.7	4.7	
25000													.4	.4	.4	.4	.4	.4	.4	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
F-16 AIRCRAFT IN THE																				
TEXAS ASE HUSH HOUSE																				
OPERATION:																				
MILITARY POWER(92%)																				
SINGLE ENGINE																				
GROUND RUNUP IN THE																				
TEXAS ASE HUSH HOUSE																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS =29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	69.3	69.9	65.1	68.6	67.9	66.5	65.1	68.6	63.2	63.0	63.7	65.3	66.3	70.9	70.8	70.8	70.8	70.8	70.8	
250	67.2	67.9	63.0	66.5	65.8	64.5	63.0	66.5	61.1	61.5	61.6	63.2	64.3	66.7	68.7	68.7	68.7	68.7	68.7	
315	65.1	65.8	60.9	64.4	63.7	62.4	60.9	64.4	59.0	59.4	59.6	61.1	62.2	66.6	66.6	66.6	66.6	66.6	66.6	
400	63.0	63.6	58.8	62.3	61.6	60.3	58.8	62.3	56.9	57.2	57.4	59.0	60.1	64.5	64.5	64.5	64.5	64.5	64.5	
500	60.8	61.5	56.6	60.1	59.4	58.1	56.6	60.1	54.6	55.0	55.2	56.8	57.8	62.2	62.2	62.2	62.2	62.2	62.2	
630	58.6	59.3	54.4	57.9	57.2	55.9	54.4	57.9	52.3	52.7	52.8	54.4	55.4	59.8	59.8	59.8	59.8	59.8	59.8	
800	56.4	57.0	52.1	55.7	54.9	53.6	52.1	55.7	50.0	50.3	50.3	52.0	52.9	57.4	57.4	57.4	57.4	57.4	57.4	
1000	54.0	54.7	49.8	53.3	52.5	51.3	49.7	53.3	47.5	47.9	47.7	49.5	50.2	54.8	54.8	54.8	54.8	54.8	54.8	
1250	51.6	52.3	47.3	50.9	50.0	48.8	47.3	50.9	44.9	45.2	45.0	46.8	47.4	52.1	52.1	52.1	52.1	52.1	52.1	
1500	49.1	49.9	44.8	48.4	47.3	46.3	44.8	48.4	42.2	42.5	42.0	43.9	44.3	49.3	49.3	49.3	49.3	49.3	49.3	
2000	46.5	47.3	42.1	45.8	44.5	43.5	42.0	45.8	39.2	39.6	38.8	40.8	40.9	46.3	46.3	46.3	46.3	46.3	46.3	
2500	43.7	44.5	39.3	43.0	41.5	40.6	39.0	42.1	36.0	36.4	35.4	37.5	37.3	43.0	43.0	43.0	43.0	43.0	43.0	
3150	40.6	41.4	36.2	39.9	38.1	37.4	35.8	38.7	32.6	33.0	31.6	33.9	33.3	39.5	39.5	39.5	39.5	39.5	39.5	
4000	37.2	37.6	32.8	36.1	34.5	33.8	32.3	34.8	28.7	29.1	27.4	29.3	29.1	35.7	35.7	35.7	35.7	35.7	35.7	
5000	33.2	33.2	28.8	31.9	30.4	29.7	28.3	30.1	24.4	24.8	23.1	25.6	24.7	31.6	31.6	31.6	31.6	31.6	31.6	
6300	29.0	28.5	24.5	27.3	26.1	25.4	24.0	25.3	19.0	20.2	18.5	21.1	20.2	27.2	27.2	27.2	27.2	27.2	27.2	
8000	24.9	24.2	20.6	23.1	22.1	21.5	20.1	21.0	15.7	16.1	14.6	16.9	15.6	23.1	23.1	23.1	23.1	23.1	23.1	
10000	20.5	19.5	16.2	18.4	17.8	17.2	15.8	16.5	11.4	11.8	10.9	12.6	12.9	18.7	18.7	18.7	18.7	18.7	18.7	
12500	15.7	14.6	11.5	13.7	13.3	12.6	11.2	12.2	7.1	7.5	6.7	8.3	8.3	14.0	14.0	14.0	14.0	14.0	14.0	
16000	10.5	9.7	6.3	8.6	8.5	7.7	6.2	7.5	2.8	3.0	2.8	4.1	5.6	9.3	9.3	9.3	9.3	9.3	9.3	
20000	4.8	4.1	.8	3.0	3.6	2.5	1.0	2.6				.1	2.1	4.7	4.7	4.7	4.7	4.7	4.7	
25000														.4	.4	.4	.4	.4	.4	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
) OMEGA 8.2
) TEST BF-705-001
) RUN 03
) AIRCRAFT CODE 705
) OPERATION CODE 00104
) PROFILE VERSION A
) 20 NOV 81
) PAGE J2

NOISE SOURCE/SUBJECT:

(MILITARY POWER(92%)
 (SINGLE ENGINE
 (GROUND RUNUP IN THE
 (TEXAS ASE HUSH HOUSE

METEOROLOGY:

) TEMP = 59 F
) BAR PRESS = 29.92 IN HG
) REL HUMID = 70 %
) DELTA N = 0.0 DB

P=PNLT

A=AL

T=ALT

	0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

NOISE LEVEL IN PNDB OR DBA

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-16 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
AFTERBURNER POWER (92%)																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.2	85.7	85.1	84.9	85.6	86.0	86.0	87.7	86.4	86.0	88.0	92.7	93.4	95.0	95.0	95.0	95.0	95.0	95.0
250	85.9	83.3	82.5	82.4	83.0	83.5	84.0	85.1	83.0	84.1	85.6	90.3	91.3	92.9	92.9	92.9	92.9	92.9	92.9
315	83.5	80.9	80.0	79.8	80.5	80.9	81.5	82.5	81.2	81.7	83.1	87.7	88.9	90.7	90.7	90.7	90.7	90.7	90.7
400	81.1	78.6	77.4	77.5	77.9	78.3	78.8	79.9	78.7	79.2	80.7	85.2	86.2	88.5	88.5	88.5	88.5	88.5	88.5
500	78.6	75.1	74.8	75.0	75.2	75.7	76.2	77.2	76.1	76.7	78.1	82.7	83.5	85.8	85.8	85.8	85.8	85.8	85.8
530	76.0	73.6	72.1	72.5	72.5	72.9	73.5	74.4	73.4	74.1	75.5	80.1	80.7	83.0	83.0	83.0	83.0	83.0	83.0
800	73.2	71.0	69.3	69.9	69.7	70.1	70.6	71.6	70.6	71.2	72.0	77.5	77.9	80.2	80.2	80.2	80.2	80.2	80.2
1000	70.1	68.2	66.4	67.1	66.8	67.2	67.9	68.7	67.7	68.1	69.0	74.7	75.0	77.3	77.3	77.3	77.3	77.3	77.3
1250	66.9	65.3	63.4	64.1	63.8	64.1	64.9	65.5	64.6	65.0	66.6	71.4	71.9	74.2	74.2	74.2	74.2	74.2	74.2
1600	63.6	62.0	60.0	60.6	60.4	60.7	61.1	62.1	60.8	61.1	62.8	67.7	68.0	71.0	71.0	71.0	71.0	71.0	71.0
2000	60.0	58.2	56.3	56.9	56.6	56.5	56.7	57.7	56.4	56.6	58.5	63.7	64.3	66.7	66.7	66.7	66.7	66.7	66.7
2500	55.8	54.0	51.7	52.6	52.3	51.9	51.3	52.6	50.9	50.8	53.3	59.0	59.3	61.3	61.3	61.9	61.9	61.9	61.9
3150	50.9	49.0	46.4	47.2	46.9	46.5	45.2	46.6	44.9	45.0	48.6	54.2	53.5	56.2	56.2	56.2	56.2	56.2	56.2
4000	44.0	42.2	39.2	40.2	39.7	39.3	38.2	38.7	36.2	35.1	40.2	48.3	46.2	49.7	49.7	49.7	49.7	49.7	49.7
5000	37.7	35.8	33.0	34.1	33.6	32.8	32.7	31.1	28.5	29.1	31.3	41.5	37.2	41.1	41.1	41.1	41.1	41.1	41.1
6300	30.4	28.7	24.1	25.7	24.9	23.8	20.3	21.3	19.2	16.8	19.4	33.1	26.2	31.1	31.1	31.1	31.1	31.1	31.1
8000	21.4	20.3	11.0	17.5	10.7	12.8	6.8	12.2	9.9	8.4	8.8	22.8	13.6	23.0	23.0	23.0	23.0	23.0	23.0
10000	9.9	7.2		3.4		1.8		3.2	.6			7.0	1.0	11.7	11.7	11.7	11.7	11.7	11.7
12500				1.2										.4	.4	.4	.4	.4	.4
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-16 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATION:																			
(AFTERBURNER POWER (92%)																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 8F-705-001																			
RUN 04																			
AIRCRAFT CODE 705																			
OPERATION CODE 00103																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE F1																			
ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	73.0	71.5	69.6	70.3	69.9	69.0	69.1	69.1	68.9	69.5	70.6	75.6	73.3	75.2	75.2	75.2	75.2	75.2	75.2
250	70.9	69.5	67.5	68.2	67.8	66.9	67.0	67.0	66.8	67.5	68.7	73.5	71.2	73.1	73.1	73.1	73.1	73.1	73.1
315	68.8	67.4	65.4	66.1	65.7	64.8	65.0	64.9	64.7	65.4	66.7	71.4	69.2	71.1	71.1	71.1	71.1	71.1	71.1
400	66.7	65.2	63.3	63.9	63.5	62.6	62.8	62.8	62.5	63.3	64.6	69.3	67.1	69.0	69.0	69.0	69.0	69.0	69.0
500	64.5	63.0	61.1	61.7	61.3	60.5	60.7	60.7	60.3	61.1	62.4	67.1	64.9	66.9	66.9	66.9	66.9	66.9	66.9
630	62.2	60.8	58.8	59.5	59.1	58.2	58.4	58.4	58.1	58.9	60.1	64.8	62.6	64.5	64.5	64.6	64.6	64.6	64.6
800	59.9	58.4	56.5	57.1	56.7	55.9	56.1	56.1	55.8	56.5	57.7	62.5	60.3	62.4	62.4	62.4	62.4	62.4	62.4
1000	57.4	56.0	54.1	54.7	54.3	53.5	53.7	53.8	53.4	54.0	55.2	60.0	57.9	60.0	60.0	60.0	60.0	60.0	60.0
1250	54.8	53.5	51.6	52.2	51.8	51.1	51.1	51.3	50.8	51.3	52.4	57.3	55.2	57.5	57.5	57.5	57.5	57.5	57.5
1600	52.0	50.8	48.9	49.5	49.1	48.4	48.3	48.6	48.0	48.3	49.5	54.5	52.4	54.7	54.7	54.7	54.7	54.7	54.7
2000	49.1	47.9	46.0	46.7	46.2	45.6	45.2	45.6	44.9	45.2	46.2	51.4	49.2	51.5	51.5	51.5	51.5	51.5	51.5
2500	46.0	44.9	42.9	43.6	43.1	42.5	41.8	42.4	41.6	41.7	42.7	48.0	45.7	48.0	48.0	48.0	48.0	48.0	48.0
3150	42.6	41.5	39.5	40.2	39.7	39.2	38.2	38.9	38.0	38.0	38.9	44.4	41.8	44.2	44.2	44.2	44.2	44.2	44.2
4000	38.8	37.9	35.7	36.5	36.0	35.6	34.3	35.1	34.1	34.0	34.7	40.5	37.7	40.0	40.0	40.0	40.0	40.0	40.0
5000	34.7	33.8	31.6	32.5	31.9	31.5	30.2	30.9	29.9	29.8	30.5	36.3	33.3	35.5	35.6	35.6	35.6	35.6	35.6
6300	30.3	29.4	27.1	28.0	27.4	27.1	25.7	26.5	25.4	25.3	26.0	31.8	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	26.2	25.2	23.0	23.9	23.2	23.0	21.9	22.8	21.6	21.6	22.4	27.7	25.3	27.7	27.7	27.7	27.7	27.7	27.7
10000	21.8	20.7	18.7	19.6	18.8	18.7	18.0	19.0	17.7	17.8	18.8	23.6	21.9	24.4	24.4	24.4	24.4	24.4	24.4
12500	17.2	16.0	14.3	15.0	14.3	14.2	14.2	15.1	13.9	14.0	15.1	19.5	18.5	21.2	21.2	21.2	21.2	21.2	21.2
16000	12.7	11.3	10.0	10.4	9.9	9.9	10.0	11.4	10.2	10.4	11.6	15.7	15.4	18.2	18.2	18.2	18.2	18.2	18.2
20000	8.4	6.7	5.8	6.0	6.0	5.9	7.4	8.1	6.9	7.0	8.3	12.3	12.4	15.3	15.3	15.3	15.3	15.3	15.3
25000	4.4	2.5	2.1	2.0	2.6	2.4	4.4	5.0	3.8	3.9	5.1	9.2	9.6	12.6	12.6	12.6	12.6	12.6	12.6

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 ((DISTANCE = 250 FEET
 ((IDENTIFICATION:
 ((OMEGA 8.2
 ((TEST 8F-705-001
 ((RUN 04
 ((NOISE SOURCE/SUBJECT:
 ((OPERATION:
 ((AFTERBURNER POWER (92%)
 ((F-16 AIRCRAFT IN THE
 ((SINGLE ENGINE
 ((TEXAS ASE HUSH HOUSE
 ((GROUND RUNUP IN THE
 ((TEXAS ASE HUSH HOUSE
 ((METEOROLOGY:
 ((TEMP = 59 F
 ((BAR PRESS = 29.92 IN HG
 ((REL HUMID = 70 %
 ((DELTA N = 0.0 DB
 ((AIRCRAFT CODE 705
 ((OPERATION CODE 00103
 ((PROFILE VERSION A
 ((20 NOV 81
 ((PAGE J1
 ((

	P=PNLT											A=AL		T=ALT	
	0	10	20	30	40	50	60	70	80	90	100	NOISE LEVEL IN PNDB OR DBA			
A															
N															
G															
L															
E															
I															
N															
O															
E															
G															
R															
E															
E															
S															
0															
10															
20															
30															
40															
50															
60															
70															
80															
90															
100															
110															
120															
130															
140															
150															
160															
170															
180															

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (U9) (1/3 OCTAVE BAND (DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (F-105 AIRCRAFT IN THE (902RPM (TEXAS ASE HUSH HOUSE (SINGLE ENGINE (GROUND RUNUP IN THE (TEXAS ASE HUSH HOUSE (BAND CENTER (FREQ (HZ)																
(0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180) (64 63 62 61 64 65 65 68 68 65 66 66 67 67 71 73 73 71 72) (62 60 60 61 62 64 64 64 62 63 64 65 65 66 66 64 69 66 71) (63 59 60 60 62 62 62 62 62 65 62 65 63 63 63 60 61 62 60 60) (67 68 62 62 61 60 62 62 61 64 68 65 63 63 64 53 65 64 66) (65 61 59 58 61 62 62 61 58 59 60 59 61 61 59 61 59 59 58) (66 59 58 58 58 62 60 57 55 57 56 57 53 58 57 60 57 57 59) (62 62 61 53 55 61 58 53 52 55 57 56 55 55 56 56 53 55 53) (60 59 62 55 57 63 57 54 49 51 53 56 53 53 55 51 50 49 51) (56 54 53 49 50 56 52 48 44 47 46 46 46 46 46 46 47 48 51) (54 53 50 48 46 47 52 45 42 40 42 39 47 46 46 46 47 48 48) (52 49 49 46 45 48 51 43 43 42 43 42 44 44 44 44 47 46 46) (50 47 45 43 44 43 44 45 41 40 39 40 41 46 45 48 47 48 47) (48 45 43 43 44 45 41 41 39 38 40 40 40 43 48 45 52 47 48) (47 45 43 44 44 44 44 42 39 39 39 47 43 43 48 45 48 46) (48 47 45 45 44 44 44 42 42 44 43 47 47 47 47 45 45 45) (51 53 54 53 51 49 48 46 42 41 43 47 47 47 47 47 47 47 47) (50 50 50 50 50 50 50 50 50 49 48 48 48 48 48 48 48 48 48) (55 54 50 50 50 50 50 50 50 49 48 48 48 48 48 48 48 48 48) (52 49 45 44 43 42 42 42 42 42 42 42 42 42 42 42 42 42 42) (52 45 43 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42) (52 46 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42) (53 45 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41) (53 45 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 41) (OVERALL 74 72 70 69 70 72 71 72 70 71 72 72 72 72 73 75 76 74 76)																

TABLE: PERCEIVED NOISE LEVEL (PNDB)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT:														
F-105 AIRCRAFT IN THE														
TEXAS A&E HUSH HOUSE														
OPERATION:														
90XPRM														
SINGLE ENGINE														
GROUND RUNUP IN THE														
TEXAS A&E HUSH HOUSE														
METEOROLOGY:														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA N = 0.0 DB														
IDENTIFICATION:														
OMEGA 8.2														
TEST RF-706-001														
AIRCRAFT CODE 706														
OPERATION CODE 09117														
PROFILE VERSION A														
20 NOV 81														
PAGE 03														
ANGLE (DEGREES)														
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130
(FEET)														
200	82.8	80.1	78.0	76.8	77.1	79.4	76.5	73.4	71.8	72.5	73.9	74.9	73.9	73.3
250	80.4	77.8	75.7	74.4	74.8	77.0	74.1	71.0	69.4	70.0	71.5	72.6	71.6	71.0
315	78.0	75.4	73.4	72.1	72.4	74.7	71.7	68.7	67.0	67.6	69.1	70.2	69.2	69.2
400	75.5	72.9	71.0	69.6	69.9	72.2	69.2	66.2	64.4	65.1	66.6	67.8	66.7	66.1
500	72.8	70.2	68.4	67.1	67.3	69.6	66.6	63.5	61.7	62.4	64.0	65.2	64.1	63.0
630	70.0	67.5	65.8	64.4	64.5	66.8	63.7	60.5	58.7	59.6	61.2	62.4	61.3	60.3
800	67.0	64.5	62.9	61.4	61.4	63.9	60.7	57.3	55.5	56.4	58.0	59.5	58.2	57.0
1000	63.8	61.2	59.8	58.2	58.0	60.6	57.3	53.9	51.9	52.6	54.5	56.4	54.8	53.6
1250	60.2	57.5	56.4	54.9	54.4	57.1	53.6	50.0	47.8	48.6	50.8	52.7	50.8	49.5
1600	56.1	53.5	52.6	51.1	50.4	52.9	49.2	45.4	43.0	44.1	46.6	48.6	46.5	45.3
2000	51.5	49.1	48.3	46.7	45.9	48.3	44.0	39.8	37.1	38.7	41.2	43.8	41.3	40.3
2500	46.4	44.0	43.2	41.0	40.4	42.6	37.6	32.4	27.8	32.2	35.3	38.4	35.1	34.1
3150	40.4	37.7	37.1	34.7	33.9	36.3	29.7	21.9	18.2	20.7	25.4	30.3	26.3	25.1
4000	32.6	29.3	28.4	26.4	24.1	27.8	16.5	11.5	8.7	9.3	11.2	22.3	12.7	12.7
5000	21.1	15.8	15.1	13.3	9.3	15.0	3.4	1.0				7.4		
6300	9.6	2.4	1.8	.3		2.1								
8000														
10000														
12500														
16000														
20000														
25000														

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
F-105 AIRCRAFT IN THE																
TEXAS ASE HUSH HOUSE																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)																
200	84.4	81.8	80.4	78.8	78.6	81.6	78.6	74.9	73.0	73.7	75.1	75.4	75.1	75.1	75.1	74.3
250	82.1	79.4	78.1	76.5	76.3	79.3	76.3	72.6	70.6	71.3	72.7	73.1	72.7	72.7	72.7	72.0
315	79.7	77.0	75.7	74.1	73.9	76.3	73.8	70.2	68.2	68.8	70.3	70.7	70.4	70.4	70.4	69.6
400	77.1	74.5	73.3	71.7	71.4	74.4	71.4	67.7	65.6	66.3	67.8	68.3	67.9	67.9	67.9	67.3
500	74.5	71.9	70.8	69.1	68.8	71.8	68.7	65.0	62.9	63.6	65.1	65.7	65.3	65.3	65.3	64.7
630	71.6	69.1	68.1	66.4	66.0	69.1	65.8	62.0	59.9	60.8	62.4	63.0	62.4	62.4	62.4	61.9
800	68.7	66.1	65.2	63.5	62.9	66.1	62.8	58.8	56.7	57.0	59.2	60.0	59.3	59.3	59.3	58.8
1000	65.4	62.9	62.1	60.2	59.5	62.8	59.4	55.4	53.1	53.8	55.7	56.9	55.9	55.9	55.4	55.4
1250	61.8	59.2	58.8	56.9	56.9	59.3	55.7	51.5	49.0	49.8	52.0	53.2	51.9	51.9	51.4	51.4
1600	57.7	55.2	55.0	53.1	51.9	55.2	51.3	46.9	44.2	45.3	47.8	49.1	47.7	47.7	47.4	47.4
2000	53.2	50.6	50.8	48.8	47.4	50.5	46.1	41.3	38.3	39.9	42.4	44.3	42.5	42.5	42.8	42.8
2500	48.1	45.7	45.6	43.0	41.9	44.8	39.8	33.9	29.0	33.4	36.5	38.9	36.3	36.3	37.4	37.4
3150	42.0	39.3	39.5	36.8	35.4	38.5	31.8	23.4	19.4	21.9	26.5	31.4	27.5	27.5	28.7	28.7
4000	33.9	30.7	30.3	28.0	25.3	29.6	18.2	12.7	9.7	10.3	12.1	17.8	13.7	13.7	14.2	14.2
5000	22.1	18.8	18.5	14.5	10.2	16.3	4.7	1.9								
6300	10.3	3.0	2.7	1.1		3.0										
8000																
10000																
12500																
16000																
20000																
25000																

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				IDENTIFICATION: OMEGA 8.2	
NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE																		TEST 8F-706-001 RUN 01			
(OPERATIONS: (90XRPM (SINGLE ENGINE (GROUND RUNUP IN THE (TEXAS ASE HUSH HOUSE																		METEOROLOGY: (TEMP = 59 F (BAR PRESS =29.92 IN HG (REL HUMID = 70 % (DELTA N = 0.0 DB		AIRCRAFT CODE 706 OPERATION CODE 00117 PROFILE VERSION A 20 NOV 81 PAGE G3	
ANGLE (DEGREES)																					
(DISTANCE ((FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
(200	68.7	66.1	65.8	63.9	63.2	66.1	62.7	59.3	57.5	58.5	59.7	61.2	63.0	60.0	62.4	60.3	62.1	60.7	61.5		
(250	66.4	63.9	63.6	61.7	61.0	64.0	60.6	57.1	55.3	56.4	57.7	59.1	57.3	57.9	60.2	58.2	60.0	58.6	59.4		
(315	64.0	61.7	61.4	59.5	58.8	61.8	58.4	55.0	53.1	54.3	55.6	56.9	55.8	55.3	58.1	56.1	57.9	56.4	57.2		
(400	61.6	59.4	59.2	57.2	56.5	59.6	56.1	52.8	50.9	52.1	53.5	54.8	53.6	53.6	55.9	54.0	55.7	54.2	55.1		
(500	59.1	57.0	56.9	54.9	54.2	57.3	53.8	50.5	48.6	49.8	51.3	52.5	51.4	51.4	53.7	51.7	53.5	52.0	52.8		
(630	56.6	54.6	54.4	52.4	51.7	54.9	51.3	48.1	46.1	47.5	49.0	50.2	49.0	49.0	51.3	49.4	51.2	49.6	50.5		
(800	53.9	52.0	51.9	49.9	49.2	52.4	48.7	45.5	43.5	45.0	46.6	47.8	46.6	46.5	48.3	47.0	48.9	47.2	48.1		
(1000	51.1	49.2	49.2	47.2	46.5	49.7	46.0	42.9	41.0	42.4	44.1	45.3	44.0	44.0	46.3	44.5	46.4	44.7	45.6		
(1250	48.2	46.3	46.3	44.3	43.7	46.9	43.1	40.1	38.1	39.6	41.2	42.6	41.3	41.3	43.7	41.8	43.9	42.1	43.0		
(1600	45.1	43.3	43.2	41.3	40.7	43.9	40.0	37.0	35.1	36.6	38.1	39.7	38.4	38.4	40.8	39.0	41.2	39.3	40.3		
(2000	41.9	40.0	39.9	38.1	37.6	40.8	36.6	33.6	31.9	33.4	34.7	36.9	35.3	35.3	37.8	35.9	38.4	36.4	37.3		
(2500	38.4	36.4	36.3	34.6	34.2	37.4	33.0	30.3	28.4	29.9	31.0	33.5	32.0	32.0	34.6	32.6	35.3	33.3	34.0		
(3150	34.6	32.5	32.4	30.7	30.5	33.7	29.0	26.6	24.7	25.1	27.0	30.0	28.4	28.4	31.0	29.1	31.9	29.9	30.5		
(4000	30.2	27.9	27.6	26.1	26.3	29.2	24.3	22.2	20.4	21.8	22.3	26.1	24.3	24.3	26.9	25.0	28.2	26.1	26.4		
(5000	25.4	23.0	22.5	21.2	21.7	24.4	19.4	17.6	15.9	17.3	17.5	21.3	20.0	20.0	22.5	20.7	24.1	21.9	22.1		
(6300	20.5	17.9	17.1	15.9	16.8	19.4	14.3	12.7	11.1	12.5	12.6	17.3	15.3	15.3	17.8	16.1	19.6	17.4	17.5		
(8000	16.2	13.5	12.4	11.0	12.4	15.2	9.9	8.7	7.1	8.5	8.8	13.2	11.2	11.2	13.2	12.1	15.2	13.3	13.3		
(10000	11.7	9.1	7.8	6.1	7.9	10.9	5.6	4.5	2.9	4.4	4.9	8.9	5.8	6.8	8.3	7.9	10.5	8.9	9.0		
(12500	7.5	4.9	3.7	1.6	3.5	6.8	1.6	.6	.6	.5	1.3	4.5	2.6	2.9	3.6	3.8	5.7	4.4	4.8		
(16000	3.1	.7			2.4							.0					1.0		.6		
(20000																					
(25000																					

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																																							
1/3 OCTAVE BAND																																							
DISTANCE = 250 FEET																																							
NOISE SOURCE/SUBJECT:										OPERATION:										METEOROLOGY:										AIRCRAFT CODE 706									
F-105 AIRCRAFT IN THE										MILITARY POWER (103%)										TEMP = 59 F										OPERATION CODE 00104									
TEXAS ASE HUSH HOUSE										SINGLE ENGINE										BAR PRESS = 29.92 IN HG										PROFILE VERSION A									
										GROUND RUNUP IN THE										REL HUMID = 70 %										20 NOV 81									
										TEXAS ASE HUSH HOUSE										DELTA N = 0.0 DB										PAGE C2									
BAND CENTER																																							
FREQ (HZ)																																							
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180																				
50	70	69	72	71	74	75	75	77	77	77	76	76	73	81	82	86	88	86	88																				
63	66	65	64	66	66	68	67	71	71	73	75	75	78	81	74	81	82	81	82																				
80	66	64	63	65	65	67	65	69	69	72	72	72	73	74	72	75	74	74	75																				
100	69	64	63	65	64	64	63	66	67	70	70	70	72	73	70	73	72	68	66																				
125	68	65	63	61	62	62	61	63	62	66	67	68	68	72	68	69	68	65	62																				
160	63	61	57	58	58	58	57	58	50	63	65	65	63	69	66	66	65	65	58																				
200	54	53	54	54	54	55	55	55	55	60	64	65	68	73	69	64	65	68	60																				
250	54	53	54	52	53	53	54	55	55	58	62	65	63	70	71	70	65	64	63																				
315	54	53	51	49	48	47	49	49	51	54	58	59	60	64	63	62	58	58	62																				
400	53	52	52	50	50	45	46	46	46	51	54	55	55	59	57	55	53	55	63																				
500	56	56	53	52	55	52	51	50	47	52	54	55	54	58	53	54	55	56	61																				
630	54	55	51	51	54	51	50	50	43	52	53	52	53	58	54	53	55	56	59																				
800	53	55	50	50	53	50	52	50	43	53	54	54	54	58	54	55	55	56	58																				
1000	53	58	51	50	53	51	48	48	46	50	52	53	55	57	55	55	56	55	56																				
1250	53	57	52	51	53	52	49	48	48	51	52	53	55	58	58	56	52	52	53																				
1600	51	55	49	49	50	48	47	45	47	49	51	55	54	59	58	56	52	53	53																				
2000	49	52	43	43	48	45	46	44	46	49	50	53	53	57	53	50	50	51	52																				
2500	44	47	44	45	45	43	43	42	44	47	48	50	52	53	48	49	48	49	50																				
3150	41	42	41	41	42	40	42	41	46	49	46	49	49	48	48	48	48	48	50																				
4000	40	40	40	40	40	38	42	40	45	48	45	47	46	48	47	48	47	47	48																				
5000	40	40	42	41	41	39	40	41	47	48	43	45	44	46	46	47	46	46	47																				
6300	40	40	40	40	39	37	39	39	45	46	41	43	42	45	44	45	44	44	45																				
8000	38	37	39	38	38	37	37	39	44	45	40	42	42	43	43	44	43	44	44																				
10000	33	34	35	35	36	35	34	36	41	41	38	36	38	39	39	40	39	41	42																				
OVERALL	75	74	74	74	76	77	76	79	79	80	81	81	84	86	84	88	88	88	89																				

TABLE: PERCEIVED NOISE LEVEL (PNDB)) IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE) OMEGA 8.2	
) TEST 3F-706-001	
) RUN 02	
NOISE SOURCE/SUBJECT:) AIRCRAFT CODE 706	
F-105 AIRCRAFT IN THE) OPERATION CODE 00104	
TEXAS ASE HUSH HOUSE) PROFILE VERSION A	
) 20 NOV 81	
) PAGE 02	
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	78.3	78.6	78.0	75.8	76.4	75.6	75.6	76.3	77.9	80.5	81.1	82.2	84.8	87.4	89.4	87.5	87.8	86.5	88.3		
250	76.0	76.4	73.7	73.5	74.1	73.1	73.1	74.3	75.4	78.1	78.7	79.9	82.4	85.1	87.1	84.9	85.2	84.0	85.7		
315	73.6	74.1	71.4	71.2	71.8	70.6	70.6	71.8	72.8	75.7	76.3	77.5	80.0	82.6	84.6	82.3	82.6	81.4	83.1		
400	71.2	71.8	69.0	68.8	69.5	68.0	68.0	69.2	70.2	73.1	73.9	75.2	77.6	80.3	83.4	79.7	79.9	78.8	80.5		
500	68.7	69.4	66.5	66.4	67.0	65.4	65.4	66.5	67.6	70.6	71.4	72.7	75.1	77.7	76.0	77.0	77.2	76.1	77.8		
530	65.9	66.8	63.9	63.7	64.4	62.7	62.9	63.8	65.0	68.0	68.7	70.0	72.5	75.0	73.3	74.3	74.5	73.3	75.0		
600	63.0	64.1	61.0	60.9	61.6	59.9	60.0	60.8	62.0	65.1	65.9	67.2	69.8	72.2	70.5	71.5	71.6	70.5	72.2		
1000	59.9	61.2	57.9	57.8	58.6	56.8	56.8	57.6	58.7	62.1	62.8	64.2	67.0	69.2	67.4	68.5	68.7	67.5	69.3		
1250	56.7	58.1	54.5	54.3	55.5	53.3	53.1	53.8	54.6	58.5	59.5	61.1	63.5	66.0	64.2	65.4	65.5	64.4	66.2		
1600	53.1	54.7	50.6	50.3	51.9	49.6	49.2	49.7	50.4	54.0	55.2	57.4	59.7	62.4	60.4	62.0	62.2	61.0	63.0		
2000	49.3	50.8	46.2	46.0	48.1	45.5	45.1	45.2	45.5	49.5	51.2	53.3	55.3	58.5	56.1	57.6	57.7	56.5	58.7		
2500	44.7	45.8	41.6	40.9	43.4	40.6	40.0	40.0	40.3	44.0	46.6	48.3	49.9	54.0	51.4	52.4	52.5	51.2	53.7		
3150	39.3	41.1	35.4	34.8	37.4	33.8	33.2	32.3	32.1	36.9	41.2	42.9	44.0	46.5	45.8	46.3	46.0	44.7	47.5		
4000	32.7	36.0	28.8	28.6	32.3	27.2	26.5	22.9	23.1	30.2	33.2	35.4	37.0	42.5	38.9	39.6	37.4	37.7	41.3		
5000	25.4	30.0	18.9	18.4	24.1	18.6	16.5	14.3	10.3	20.9	24.3	26.5	27.7	35.0	31.4	32.4	28.2	29.2	34.2		
6300	14.1	22.3	9.1	8.2	14.7	9.3	6.2	5.7		1.4	12.1	14.5	16.3	25.5	20.3	21.6	18.2	15.2	25.0		
8000	2.8	8.7			5.3	1.2					2.4	4.9	13.7	9.1	7.2	0.2	7.2	18.4			
10000																			7.7		
12500																					
16000																					
20000																					
25000																					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:																					
F-105 AIRCRAFT IN THE																					
TEXAS ASE HUSH HOUSE																					
OPERATION:																					
MILITARY POWER (103%)																					
SINGLE ENGINE																					
GROUND RUNUP IN THE																					
TEXAS ASE HUSH HOUSE																					
METEOROLOGY:																					
TEMP = 59 F																					
BAR PRESS = 29.92 IN HG																					
REL HUMID = 70 %																					
DELTA N = 0.0 DB																					
IDENTIFICATION:																					
OMEGA 5.2																					
TEST SF-706-U01																					
RUN 02																					
AIRCRAFT CODE 706																					
OPERATION CODE 0010+																					
PROFILE VERSION A																					
20 NOV 81																					
PAGE E2																					
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
200	78.3	78.6	78.0	75.8	76.4	77.0	75.6	76.3	77.9	78.9	80.9	82.7	85.6	87.4	89.3	88.9	87.8	87.2	88.3	88.3	88.3
250	76.0	76.4	73.7	73.5	74.1	74.5	73.1	74.3	75.4	76.1	78.7	80.4	83.2	85.1	87.0	86.3	85.2	84.6	85.7	85.7	85.7
315	73.6	74.1	71.4	71.2	71.8	72.0	70.6	71.8	72.8	75.7	76.3	78.1	80.8	82.9	84.7	83.7	82.6	82.0	83.1	83.1	83.1
400	71.2	71.8	69.0	68.8	69.5	69.4	68.0	69.2	70.2	73.2	73.9	75.7	78.3	80.3	81.7	81.1	79.9	79.3	80.5	80.5	80.5
500	68.7	69.4	66.5	66.4	67.0	66.3	65.6	66.5	67.6	70.6	71.4	73.3	75.9	77.7	78.4	78.4	77.2	76.7	77.8	77.8	77.8
630	65.9	66.8	63.9	63.7	64.4	64.1	62.9	63.8	65.0	68.7	70.5	73.2	75.0	76.2	76.2	75.7	74.5	73.3	75.0	75.0	75.0
800	63.0	64.1	61.0	60.9	61.6	61.3	60.0	60.6	62.0	65.1	65.9	67.8	70.5	72.2	71.4	72.8	71.6	71.1	72.2	72.2	72.2
1000	59.9	61.2	57.9	57.8	58.6	58.2	56.9	57.6	58.7	62.1	62.8	64.7	67.7	69.2	68.3	69.9	68.7	68.1	69.3	69.3	69.3
1250	56.7	58.1	54.5	54.3	55.5	54.7	53.1	53.8	54.6	58.5	59.5	61.6	64.3	66.0	65.1	66.8	65.6	65.0	66.2	66.2	66.2
1600	53.1	54.7	50.6	50.3	51.9	51.0	49.2	49.7	50.4	54.0	55.2	57.3	60.0	61.5	60.3	62.3	61.6	61.6	63.0	63.0	63.0
2000	49.3	50.8	46.2	46.0	48.1	46.9	45.1	45.2	45.5	49.5	51.2	53.3	56.0	57.5	57.0	58.9	57.7	57.1	58.7	58.7	58.7
2500	44.7	45.8	41.5	40.9	43.4	42.0	40.0	40.0	40.3	44.0	45.6	48.9	51.6	53.0	52.2	53.8	52.5	51.3	53.7	53.7	53.7
3150	39.3	41.1	37.4	36.8	39.4	38.2	36.2	36.3	36.1	39.9	41.2	43.1	45.8	47.3	46.3	47.6	46.0	45.3	47.5	47.5	47.5
4000	32.7	36.0	28.8	28.6	32.3	28.4	26.5	26.5	26.5	30.2	31.2	33.8	36.6	38.2	37.0	38.0	37.4	36.2	38.2	38.2	38.2
5000	25.4	30.0	18.9	18.4	24.1	19.4	16.5	14.3	10.3	20.9	24.3	26.8	28.2	29.0	28.0	29.2	28.2	26.2	29.6	29.6	29.6
6300	14.1	22.3	9.1	8.2	14.7	10.5	6.5	5.7	5.7	7.4	12.1	14.7	15.6	16.5	15.6	16.5	15.6	13.2	18.2	19.5	22.0
8000	2.8	8.7			5.3	1.5						2.5	5.0	13.7	3.3	7.5	5.2	7.3	18.4	18.4	18.4
10000																					
12500																					
16000																					
20000																					
25000																					

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
F-105 AIRCRAFT IN THE																
TEXAS A&E HUSH HOUSE																
OPERATION:																
MILITARY POWER (103%)																
SINGLE ENGINE																
GROUND RUNUP IN THE																
TEXAS A&E HUSH HOUSE																
TEMP = 59 F																
BAR PRESS = 29.92 IN Hg																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
ANGLE (DEGREES)																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	64.7	66.7	62.5	62.2	63.8	61.9	61.4	61.3	62.2	65.0	65.1	67.5	69.3	72.1	70.3	70.1
250	62.6	64.6	60.4	60.1	61.7	59.9	59.3	59.2	60.0	62.9	63.0	65.4	67.2	70.0	68.2	68.0
315	60.5	62.5	58.3	58.0	59.6	57.7	57.2	57.1	57.8	60.7	62.0	63.3	65.1	68.0	66.0	65.9
400	58.4	60.3	56.1	55.8	57.5	55.6	55.0	55.0	55.6	58.5	59.6	61.2	63.0	65.8	64.0	63.8
500	56.2	58.2	53.9	53.6	55.3	53.4	52.8	52.8	53.3	56.3	57.6	59.0	60.8	63.5	61.8	61.7
630	54.0	55.9	51.6	51.3	53.0	51.2	50.6	50.6	50.9	53.9	55.3	56.5	58.4	61.3	59.4	59.0
800	51.6	53.6	49.3	49.0	50.7	48.8	48.2	48.2	48.5	51.5	52.9	54.2	56.0	58.9	57.0	57.0
1000	49.2	51.2	46.9	46.6	48.4	46.4	45.8	45.8	45.9	49.0	50.5	51.7	53.4	56.3	54.4	54.5
1250	46.7	48.8	44.3	44.0	45.9	43.9	43.2	43.2	43.2	46.3	47.8	49.0	50.7	53.0	51.6	51.9
1600	44.0	46.2	41.7	41.4	43.4	41.3	40.6	40.5	40.4	43.4	44.9	46.1	47.7	50.7	48.6	49.0
2000	41.3	43.5	38.9	38.6	40.7	38.5	37.6	37.6	37.3	40.4	41.9	43.0	44.5	47.2	45.9	45.9
2500	38.3	40.6	35.9	35.6	37.8	35.6	34.7	34.5	33.9	37.1	38.7	39.7	41.0	44.2	42.0	42.5
3150	35.0	37.4	32.6	32.3	34.6	32.3	31.5	31.1	30.4	33.6	35.1	36.1	37.2	40.5	38.3	38.8
4000	31.3	33.9	29.0	28.7	31.1	28.8	27.9	27.4	26.5	29.8	31.2	32.2	33.2	36.2	34.3	34.8
5000	27.3	30.0	24.9	24.7	27.1	24.8	23.9	23.4	22.4	25.7	27.1	28.1	29.3	32.4	30.6	30.6
6300	22.9	25.8	20.5	20.3	22.8	20.2	19.6	18.9	17.9	21.3	22.7	23.6	24.5	28.0	25.5	26.1
8000	19.0	21.5	16.5	16.3	18.8	16.5	15.6	15.2	14.1	17.4	18.8	19.5	20.6	24.0	21.4	22.2
10000	14.8	16.3	12.2	11.9	14.5	12.2	11.4	11.2	10.2	13.4	14.6	15.2	16.6	19.9	17.1	18.2
12500	10.2	11.8	7.0	7.3	9.9	7.6	6.9	7.1	6.2	9.3	10.7	10.9	12.7	15.7	12.9	14.3
16000	5.5	6.4	2.8	2.5	4.9	2.9	2.3	3.1	2.4	5.2	6.6	6.0	7.8	11.5	9.9	10.7
20000	.6	.7								1.3	2.6	2.5	3.2	7.5	5.0	7.5
25000										1.8	3.3	3.3	4.1	8.1	4.6	5.2
																5.9

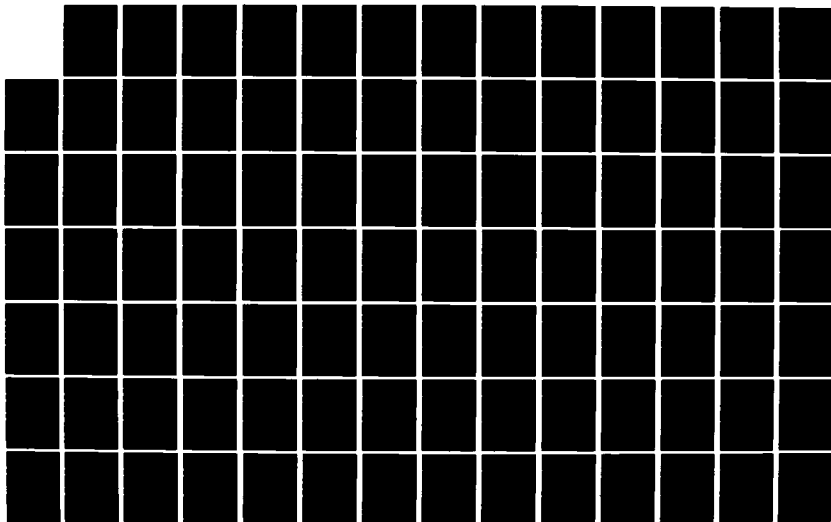
AD-A122 844

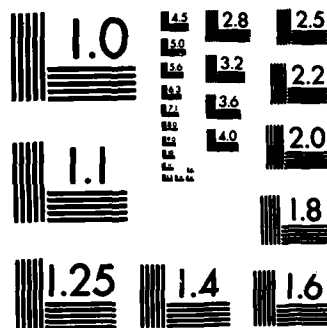
FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE INC
HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL
RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82
AFAMRL-TR-81-148 F/G 6/6

2/3

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS A&E HUSH HOUSE																			
(OPERATIONS: MILITARY POWER (103%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS A&E HUSH HOUSE)																			
(METEOROLOGY: TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB)																			
IDENTIFICATION: OMEGA 8.2 TEST 8F-706-001 RUN 02 AIRCRAFT CODE 706 OPERATION CODE 00104 PROFILE VERSION A 20 NOV 81 PAGE 62																			

ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			

DISTANCE (FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			

200	64.7	60.7	62.5	62.2	63.8	63.4	61.4	61.3	62.2	65.0	66.1	68.1	70.0	72.1	71.2	71.5	69.7	69.0	69.8
250	62.6	64.6	60.4	60.1	61.7	61.3	59.3	59.2	60.0	62.9	64.0	66.0	63.0	70.0	69.1	69.4	66.6	66.3	67.7
315	60.5	62.5	58.3	58.0	59.6	59.2	57.2	57.1	57.8	60.7	62.0	63.3	63.9	68.0	67.0	67.3	64.8	64.8	65.6
400	58.4	60.3	56.1	55.8	57.5	57.0	55.0	55.0	55.0	58.5	59.8	61.7	63.8	65.8	64.9	65.2	62.4	62.7	63.5
500	56.2	58.2	53.9	53.6	55.3	54.8	52.8	52.8	53.3	56.3	57.6	59.5	61.5	63.5	62.7	63.0	60.3	60.5	61.4
630	54.0	55.9	51.5	51.3	53.0	52.6	50.6	50.6	50.3	53.9	55.3	57.2	59.2	61.3	60.3	60.7	58.0	58.2	59.2
800	51.6	53.6	49.3	49.0	50.7	50.3	48.2	48.2	48.5	51.5	52.9	54.8	56.8	58.8	57.8	58.3	55.7	55.9	57.0
1000	49.2	51.2	46.9	46.6	48.4	47.9	45.8	45.8	45.9	49.0	50.5	52.2	54.2	56.3	55.2	55.9	53.3	53.5	54.7
1250	46.7	48.8	44.3	44.0	45.9	45.4	43.2	43.2	43.2	46.3	47.8	49.5	51.4	53.5	52.5	53.2	50.8	51.0	52.3
1500	44.0	46.2	41.7	41.4	43.4	42.7	40.6	40.5	40.4	43.4	44.9	46.6	48.4	50.7	49.5	50.4	48.1	48.3	49.8
2000	41.3	43.5	38.9	38.6	40.7	40.0	37.8	37.6	37.3	40.4	41.9	43.6	45.2	47.2	46.4	47.2	45.0	45.3	47.0
2500	38.3	40.6	35.9	35.6	37.8	37.0	34.7	34.5	33.9	37.1	38.7	40.3	41.7	44.2	42.9	43.8	41.7	42.0	43.8
3150	35.0	37.4	32.6	32.3	34.6	33.7	31.5	31.1	30.4	33.6	35.1	36.7	38.0	40.5	39.2	40.2	38.1	38.5	40.3
4000	31.3	33.9	29.0	28.7	31.1	29.9	27.9	27.4	26.5	29.8	31.2	32.7	33.8	36.5	35.0	35.9	34.2	34.5	36.5
5000	27.3	30.0	24.9	24.7	27.1	25.6	23.9	23.3	22.4	25.7	27.1	28.4	29.4	32.4	30.9	31.4	30.0	30.3	32.2
6300	22.9	25.8	20.5	20.3	22.8	21.0	19.6	18.9	17.9	21.3	22.7	23.8	24.8	26.0	25.8	26.7	25.6	25.8	27.7
8000	19.0	21.5	16.5	16.3	18.8	16.7	15.6	15.2	14.1	17.4	18.8	19.6	20.9	24.0	21.5	22.5	21.9	22.0	24.2
10000	14.8	16.9	12.2	11.9	14.5	12.2	11.4	11.2	10.2	13.4	14.8	15.2	15.6	19.9	17.1	18.2	18.2	18.0	20.5
12500	10.2	11.8	7.6	7.3	9.9	7.6	6.9	7.1	6.2	9.3	10.7	10.9	12.7	15.7	12.9	14.3	14.5	14.2	16.7
16000	5.5	6.4	2.8	2.5	4.9	2.9	2.3	3.1	2.4	5.2	6.6	6.6	8.8	11.5	8.9	10.7	11.1	10.5	12.9
20000	.6	.7								1.3	2.6	2.6	5.2	7.5	5.0	7.5	8.1	7.0	9.2
25000										1.8	3.3	3.3	1.8	3.3	1.5	4.6	5.2	3.9	5.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
 IDENTIFICATION: OMEGA 8.2
 TEST 9F-706-001
 RUN 02
 AIRCRAFT CODE 700
 OPERATION CODE 00104
 PROFILE VERSION A
 20 NOV 81
 PAGE J2

OPERATIONS: MILITARY POWER (103%)
 SINGLE ENGINE
 GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB

P=PNLT A=AL T=ALT

	-10	0	10	20	30	40	50	60	70	80	90
A											
N											
G											
L											
E											
I											
N											
D											
E											
G											
R											
E											
S											
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(F-105 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
((OPERATION:) METEOROLOGY:) AIRCRAFT CODE 706																			
((AFTERBURNER PHR (103%)) TEMP = 59 F) OPERATION CODE 00103																			
((SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
((GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
((TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	78	77	82	82	85	86	87	84	84	86	90	93	95	98	98	98	98	98	
63	78	77	74	79	82	78	79	84	82	84	83	85	87	90	92	95	95	96	
80	75	73	72	74	79	72	75	77	78	81	84	85	84	83	81	86	87	90	
100	81	74	72	73	78	71	72	73	75	78	80	80	80	81	79	78	78	82	
125	78	76	72	72	74	71	72	71	72	76	77	77	73	77	78	76	77	76	
160	72	72	67	68	71	66	66	66	68	73	75	74	74	74	74	72	74	72	
200	65	64	66	66	65	63	63	63	63	71	73	76	74	74	75	70	70	70	
250	62	63	64	61	71	61	61	64	63	72	76	77	74	77	75	74	68	68	
315	63	61	61	58	68	57	56	57	53	65	65	67	63	69	71	70	68	64	
400	61	60	70	57	63	50	57	55	63	61	61	62	64	65	65	63	62	62	
500	62	61	72	60	66	62	59	54	65	58	62	63	64	62	62	63	62	62	
630	60	61	72	58	60	60	59	58	54	58	56	59	61	64	61	63	63	61	
800	59	59	65	57	63	58	59	58	65	59	59	60	62	63	63	63	63	61	
1000	61	58	65	58	61	58	59	56	63	59	56	59	63	63	63	63	62	61	
1250	61	60	67	60	61	60	58	57	60	61	59	62	64	65	67	67	67	63	
1600	59	58	65	57	63	58	62	53	61	59	58	62	65	65	66	64	64	58	
2000	58	57	63	56	58	55	58	53	62	57	58	62	63	63	61	58	59	55	
2500	52	51	58	53	53	51	54	50	57	56	55	58	60	60	56	56	55	52	
3150	49	46	63	46	47	47	51	50	56	56	52	57	53	55	54	54	54	51	
4000	47	45	55	45	48	45	48	49	54	55	52	55	52	53	54	53	53	50	
5000	46	45	51	45	45	45	50	48	55	55	52	52	51	51	52	52	52	49	
6300	46	44	50	44	44	44	50	46	52	54	50	50	50	50	50	51	51	48	
8000	43	42	51	42	42	41	56	45	52	53	48	48	43	49	50	50	50	47	
10000	40	39	53	39	39	39	54	43	48	50	45	45	45	40	47	47	48	45	
OVERALL	86	83	85	85	88	86	87	89	88	89	91	93	95	97	99	100	100	100	

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
 OPERATION: AFTERBURNER PWR (103%)
 SINGLE ENGINE
 GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB

IDENTIFICATION:
 OMEGA 8.2
 TEST RF-706-001

RUN 03
 AIRCRAFT CODE 706
 OPERATION CODE 00103
 PROFILE VERSION A
 20 NOV 81
 PAGE 01

ANGLE (DEGREES)

DISTANCE (FEET) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

200	89.2	86.4	81.5	75.2	69.4	66.3	68.4	80.3	89.8	90.6	91.6	93.9	95.6	98.2	97.8	98.2	97.3	97.3
250	87.0	84.1	83.3	82.7	87.0	83.6	85.9	85.7	97.3	88.1	89.2	91.5	93.4	96.1	95.7	96.1	95.2	95.2
315	84.7	81.7	87.0	80.2	84.6	81.2	83.3	83.1	84.9	85.6	86.8	89.0	91.3	92.3	93.9	93.5	94.0	93.1
400	82.3	79.3	84.6	77.7	82.2	78.6	80.6	80.4	82.5	83.1	84.3	86.4	88.7	90.1	91.8	91.4	91.8	91.0
500	79.8	76.8	82.0	75.1	79.7	76.0	77.9	77.7	80.1	80.5	81.6	83.0	85.0	86.5	89.2	89.5	88.8	88.8
630	77.2	74.1	73.4	72.5	77.2	73.3	75.1	75.0	77.5	77.6	79.2	81.0	83.3	84.7	87.0	86.6	87.2	86.3
800	74.4	71.2	76.7	69.7	74.4	70.5	72.3	72.2	74.8	75.0	76.5	78.3	80.4	81.9	84.2	83.8	84.4	83.5
1000	71.3	68.1	74.1	68.8	71.5	67.6	69.3	69.2	72.0	72.1	73.7	75.5	77.5	79.0	81.3	80.9	81.5	80.6
1250	67.9	64.9	71.4	63.8	68.6	64.6	66.2	66.1	68.9	69.0	70.3	72.2	74.5	75.0	76.3	77.9	78.5	77.5
1500	64.2	61.2	68.4	60.5	65.4	61.2	62.8	62.8	65.0	65.2	66.6	68.9	71.2	72.8	75.1	74.7	75.3	74.3
2000	59.9	57.5	65.2	56.6	61.9	57.0	58.9	58.3	62.0	61.0	62.4	64.8	67.1	68.6	70.9	70.5	71.1	70.0
2500	55.1	53.3	61.7	52.2	57.7	52.9	54.6	53.3	57.7	56.1	57.5	60.1	62.5	64.0	66.1	65.7	66.2	65.1
3150	50.1	48.3	57.6	47.2	53.0	47.8	49.5	46.7	53.1	50.6	51.3	54.7	57.1	58.5	60.7	60.8	59.6	59.6
4000	44.2	42.4	52.8	41.0	47.5	41.3	42.9	40.3	47.0	44.6	44.7	48.0	50.9	52.3	54.4	54.0	54.5	53.2
5000	38.0	36.1	47.4	33.8	40.8	34.9	35.9	32.9	40.9	38.0	38.1	42.0	44.3	44.9	46.9	46.2	47.0	45.2
6300	30.0	28.7	41.6	25.7	34.0	27.4	27.3	22.8	34.5	27.7	27.5	33.4	35.8	37.2	38.6	38.5	38.5	35.2
8000	21.6	20.3	36.7	18.0	28.0	20.4	18.5	14.3	28.2	19.3	16.3	24.0	26.2	30.5	31.3	31.9	32.0	29.4
10000	10.0	10.2	30.9	10.2	17.7	9.1	9.7	5.9	19.2	8.9	5.1	11.2	17.6	20.5	23.9	22.5	23.6	21.5
12500		2	24.3	2.5	9.3		.9		7.6			7.0	10.5	10.2	10.8	12.6	11.9	11.9
15000			14.8		1.0											1.7	2.2	2.2
20000			5.4															
25000																		

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-105 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST BF-707-001
AIRCRAFT CODE: 707
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Page

Engine Runup, 85% RPM	102
Engine Runup, 95% RPM	100
Military Power, 100% RPM	114
Afterburner Power, 100% RPM	129

UNNORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACEL MEDICAL RESEARCH
AERIGHT-PATTERSON
LABORATORY

[illegible]

TABLE: PERCEIVED NOISE LEVEL (PN08)																								
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																								
NOISE SOURCE/SUBJECT:										OPERATIONS:					METEOROLOGY:					AIRCRAFT CODE 707				
F-106 AIRCRAFT IN THE										65X RPM					TEMP = 59 F					OPERATION CODE 00118				
TEXAS ASE HUSH HOUSE										SINGLE ENGINE					BAR PRESS =29.92 IN HG					PROFILE VERSION A				
										GROUND RUNUP IN THE					REL HUMID = 70 %					20 NOV 61				
										TEXAS ASE HUSH HOUSE					DELTA N = 0.0 DB					PAGE 04				

DISTANCE ANGLE (DEGREES)																								
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180					
200	75.0	75.9	75.0	72.1	73.1	70.1	78.3	76.8	74.6	68.6	76.4	73.9	78.2	80.3	75.8	82.7	82.0	82.2	78.5					
250	72.8	73.6	72.7	69.8	70.8	67.8	75.9	74.4	72.2	66.3	74.1	71.5	75.9	77.9	73.6	80.4	79.8	80.0	76.3					
315	70.4	71.3	70.4	67.5	68.5	65.5	73.5	72.0	69.9	64.0	71.8	69.3	73.6	75.5	71.3	78.2	77.5	77.7	74.0					
400	68.1	68.9	68.1	65.1	66.0	63.0	71.0	69.0	67.4	61.5	69.5	66.9	71.2	73.1	69.0	75.9	75.2	75.4	71.7					
500	65.6	66.4	65.5	62.6	63.5	60.5	68.5	67.0	64.7	58.9	67.1	64.3	68.8	70.5	66.7	73.5	72.8	73.0	69.3					
630	63.0	63.8	63.0	59.9	60.9	57.7	65.9	64.4	62.0	56.1	64.5	61.7	66.4	68.0	64.2	71.0	70.3	70.5	66.9					
800	60.2	61.0	60.1	57.1	58.0	54.8	63.0	61.6	59.1	53.1	61.9	58.8	63.7	65.2	61.5	68.4	67.8	67.9	64.3					
1000	57.3	58.1	57.2	54.1	55.1	51.7	60.0	58.7	55.9	49.7	59.0	55.8	61.0	62.1	58.7	65.6	65.0	65.1	61.4					
1250	54.2	54.9	54.0	50.8	51.8	48.1	56.5	54.8	52.3	45.9	55.9	52.6	57.8	58.5	55.3	62.5	61.8	61.9	58.0					
1500	50.9	51.4	50.5	47.1	48.3	44.2	52.8	50.2	48.2	41.9	52.5	48.8	54.4	54.3	51.7	58.8	58.1	58.2	54.3					
2000	47.1	47.4	46.6	42.6	44.6	39.7	48.7	46.2	43.9	37.4	48.8	44.6	50.6	49.4	47.3	54.7	54.0	54.1	50.0					
2500	42.4	42.7	42.0	38.0	40.7	34.7	43.8	41.1	39.7	32.7	44.1	40.0	45.6	44.4	42.4	49.8	49.2	49.2	44.7					
3150	37.2	37.5	36.6	32.1	36.1	27.9	37.3	35.3	34.6	25.5	39.2	35.6	33.7	33.0	36.4	44.3	43.5	43.7	38.7					
4000	30.8	30.8	30.5	23.6	30.4	18.4	27.7	26.2	28.6	15.7	32.9	29.3	32.4	30.9	29.0	37.6	36.2	36.8	31.5					
5000	20.5	18.7	19.7	11.3	22.8	8.9	18.1	12.6	17.8	5.8	25.0	20.1	23.1	22.8	19.3	30.0	27.6	28.1	21.3					
6300	9.0	6.5	6.9		13.4		8.5		7.4		13.9	8.1	6.9	6.3	9.5	18.4	16.2	14.9	11.1					
8000					4.0						2.9					6.7	4.9	1.8	.9					
10000																								
12500																								
16000																								
20000																								
25000																								

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-106 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
85% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
DELTA N = 0.0 DB																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.0	62.9	62.4	59.5	62.4	57.6	63.7	62.4	61.6	56.6	54.9	62.4	64.4	65.0	62.6	68.6	67.7	68.1	64.5
250	60.8	60.7	60.3	57.3	60.3	55.5	61.7	60.4	59.4	54.5	52.7	60.3	62.4	62.9	60.5	66.5	65.6	66.0	62.4
315	58.7	58.5	58.1	55.2	58.1	53.3	59.5	58.3	57.3	52.3	50.6	58.1	60.3	60.3	58.4	64.4	63.5	63.9	60.3
400	56.5	56.3	55.9	53.0	56.0	51.1	57.5	56.2	55.0	50.2	48.4	55.9	58.1	58.7	56.3	62.3	61.4	61.8	58.1
500	54.2	54.1	53.7	50.7	53.8	48.9	55.3	54.0	52.7	47.9	46.2	53.7	55.9	56.5	54.2	60.1	59.2	59.5	55.9
530	51.9	51.7	51.4	48.4	51.5	46.6	53.1	51.7	50.4	45.7	43.8	51.4	53.6	54.3	52.0	57.8	57.0	57.2	53.7
600	49.5	49.3	49.0	46.0	49.2	44.2	50.7	49.3	48.0	43.4	41.5	49.0	51.3	51.3	49.7	55.4	54.7	54.9	51.4
1000	47.0	46.8	46.5	43.5	46.8	41.8	48.2	46.9	45.5	41.0	39.0	46.6	48.8	49.4	47.4	53.0	52.2	52.4	49.0
1250	44.4	44.1	43.9	40.9	44.3	39.2	45.5	44.2	43.0	38.5	36.4	44.1	46.2	46.7	44.7	50.3	49.5	49.7	46.3
1600	41.7	41.4	41.2	38.1	41.6	36.6	42.7	41.3	40.3	35.9	33.7	41.4	43.5	43.3	41.9	47.4	46.6	46.8	43.4
2000	38.8	38.4	38.4	35.3	38.9	33.8	39.6	38.2	37.6	33.2	30.9	38.6	40.7	40.3	39.0	44.4	43.6	43.7	40.5
2500	35.6	35.2	35.3	32.1	35.9	30.8	36.2	34.8	34.7	30.3	27.8	35.7	37.5	37.7	35.7	41.1	40.3	40.3	37.1
3150	32.1	31.7	32.0	28.7	32.6	27.5	32.4	31.2	31.6	27.1	24.5	32.5	33.9	34.2	32.1	37.6	36.7	36.6	33.5
4000	28.3	27.8	28.2	24.9	29.3	23.9	28.2	27.2	28.2	23.5	20.8	29.0	30.0	30.4	28.1	33.7	32.8	32.5	29.5
5000	24.0	23.5	24.0	20.6	25.5	19.8	23.8	23.1	24.2	19.5	16.7	25.1	25.7	26.4	23.7	29.4	28.5	28.1	25.1
6300	19.2	18.8	19.5	16.0	21.4	15.4	19.3	18.8	19.9	15.2	12.3	20.8	21.2	22.0	19.2	25.0	24.0	23.6	20.6
8000	14.4	14.2	15.1	11.4	16.9	11.2	15.9	14.6	16.0	11.2	8.9	16.5	17.4	18.1	15.6	21.0	20.1	19.7	16.7
10000	9.3	9.3	10.4	6.6	11.9	6.7	12.4	10.7	11.7	6.8	4.1	11.9	13.3	13.9	11.6	16.9	15.9	15.7	12.5
12500	3.9	4.2	5.3	1.4	6.4	1.7	8.7	6.5	6.9	2.1	0.9	6.8	9.0	9.6	7.5	12.5	11.5	11.6	8.3
16000					.2		5.0	2.4	1.6		2.2	1.1	4.6	5.3	3.0	7.9	7.1	7.3	3.9
20000							1.3						.2			3.3	2.7	3.0	
25000														1.2					

IDENTIFICATION:

OMEGA 8.2

TEST BF-707-001

RUN 01

AIRCRAFT CODE 707

OPERATION CODE 00118

PROFILE VERSION A

20 NOV 61

PAGE F4

METEOROLOGY:

TEMP

= 59 F

9AR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

ANGLE (DEGREES)

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (F-106 AIRCRAFT IN THE
 (TEXAS ASE HUSH HOUSE
 (OPERATION:
 (85% RPM
 (SINGLE ENGINE
 (GROUND RUNUP IN THE
 (TEXAS ASE HUSH HOUSE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST BF-707-001
 (RUN 01
 (AIRCRAFT CODE 707
 (OPERATION CODE 00118
 (PROFILE VERSION A
 (20 NOV 81
 (PAGE J4
)

ANGLE	NOISE LEVEL IN PNJB OR DBA										
	-10	0	10	20	30	40	50	60	70	80	90
0									AT		P
10									AT		P
20								AT		P	
30								AT		P	
40								AT		P	
50								X		P	
60								AT		P	
70								AT		P	
80								X		P	
90								X		P	
100								AT		P	
110								AT		P	
120								X		P	
130								X		P	
140								AT		P	
150								X		P	
160								AT		P	
170								AT		P	
180								AT		P	

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 707																			
F-106 AIRCRAFT IN THE (95 RPM) TEMP = 59 F) OPERATION CODE 00116																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	50<	53<	53<	54	69	66	69	59	69	72	70	73	73	73	77	79	76	80
63	63<	50<	53<	53<	63<	67	67	69	68	70	68	68	73	72	71<	67	69	68	73
80	62<	50<	53<	53<	61<	66<	65<	67<	67<	70<	71<	71<	73<	72<	69<	66<	67<	66<	70<
100	61<	50<	53<	53<	59<	64<	62<	65<	65<	69	73	73	73	72	68<	64<	65<	64<	67<
125	60<	50<	53<	53<	58<	63<	60<	63<	64<	60	59	69	70	69	66<	63<	62<	64<	67<
160	59<	50<	53<	53<	56<	62<	58<	60<	62<	65<	66<	65<	65<	66<	64<	62<	62<	60<	61<
200	58<	50<	53<	53<	54<	61<	56<	58<	61<	63	62<	61<	60	62	62<	61<	60<	58<	58<
250	57	50<	53<	53<	53<	59<	54<	56<	59<	61	58<	57	60	59	61	59	58<	55<	55<
315	53	50<	53<	53<	51<	58<	52<	53<	58<	56	55	53	52	54	53	56	56	53<	51<
400	51	50<	53	53	50	57	50	51	56	54	53	50	48	50	55<	54	55	51<	48
500	52	50	54	58	56	62	53	55	53	51	53	48	47	49	57	54	57	49	51
630	51	50	54	52	55	56	54	55	57	51	52	47	47	48	59	54	57	49	51
800	49	47	52	55	54	57	54	54	57	49	52	48	51	50	48	54	57	50	49
1000	51	50	57	62	58	60	55	60	62	49	50	49	51	51	52	54	56	49	49
1250	55	50	54	59	55	57	54	57	53	48	50	50	53	50	53	54	55	48	46
1600	57	55	55	58	58	59	54	57	63	48	49	51	52	50	53	52	51	45	45
2000	53	53	53	57	55	58	51	55	62	47	48	51	51	51	47	48	48	43	44
2500	46	44	51	54	54	56	48	53	53	44	47	46	49	47	45	45	45	42	43
3150	41	39	47	53	50	51	44	50	50	44	45	45	47	48	44	43	43	43	43
4000	38	36	39	43	42	43	38	42	48	41	45	42	43	43	40	42	42	42	43
5000	40	36	33	38	42	39	37	39	43	40	41	39	40	40	39	41	42	41	42
6300	39	37	39	37	40	35	35	37	39	39	37	37	37	38	37	39	40	40	41
8000	39	42	38	36	35	33	34	37	37	38	36	37	36	36	35	37	41	43	40
10000	34	32	34	34	44	27<	31	35	35	34	33	35	32	32	31	33	36	37	38
OVERALL	71	63	65	68	71	75	72	75	75	77	76	78	79	79	78	78	80	78	82
XXX< = EXTRAPOLATED OR INTERPOLATED SPL																			

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-106 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
95% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = 0.0 DB																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.5	75.0	77.4	80.1	80.0	82.3	77.2	80.6	85.1	76.7	90.7	80.4	80.7	80.5	78.9	78.5	80.2	76.6	79.5
250	76.2	72.7	75.2	77.9	77.8	80.1	75.0	78.4	82.8	76.3	78.3	78.0	78.4	76.1	76.7	76.0	77.7	74.1	76.9
315	74.0	70.4	72.9	75.6	75.4	77.8	72.7	76.1	80.6	74.0	75.9	75.6	76.0	75.8	74.4	73.5	75.1	71.6	74.3
400	71.6	68.0	70.5	73.3	73.0	75.5	70.4	73.7	78.3	71.5	73.5	73.2	73.5	73.3	72.0	71.2	72.6	69.0	71.7
500	69.2	65.5	68.1	70.9	70.6	73.1	68.0	71.3	75.9	69.0	71.0	70.6	71.0	70.8	69.6	68.7	70.0	66.3	69.0
630	66.6	62.9	65.6	68.3	68.0	70.6	65.4	68.8	73.3	66.4	68.4	68.0	68.4	68.2	67.1	66.2	67.3	63.5	66.2
800	63.9	60.2	62.8	65.6	65.2	68.0	62.7	66.1	70.7	63.5	65.5	65.0	65.3	65.3	64.5	63.5	64.5	60.6	63.3
1000	61.0	57.1	60.1	62.6	62.4	65.1	59.8	63.2	67.9	60.3	62.3	61.9	62.3	62.1	61.8	60.6	61.6	57.2	60.1
1250	57.8	54.0	57.1	59.8	59.4	62.1	56.6	60.1	64.8	56.6	58.7	58.2	58.7	58.3	58.7	57.3	58.6	53.3	56.7
1500	54.3	50.6	53.7	56.5	56.0	58.8	53.2	56.8	61.5	52.6	54.5	54.0	54.5	54.3	55.2	53.6	55.2	49.8	52.9
2000	50.5	46.8	50.0	53.0	52.3	55.2	48.4	53.1	58.0	48.6	49.5	48.8	49.8	49.8	51.4	49.4	51.4	45.5	47.8
2500	45.9	42.0	45.4	48.6	47.7	51.5	44.0	48.4	53.8	43.4	44.5	43.2	44.6	44.8	47.2	44.5	47.0	39.9	41.6
3150	40.3	36.9	40.0	43.4	42.7	46.8	38.3	43.3	49.1	37.2	38.8	37.3	38.4	38.4	42.2	39.2	41.8	32.6	33.9
4000	34.2	30.8	34.3	37.6	37.3	41.3	33.0	38.3	43.5	27.6	30.4	27.2	29.8	27.3	35.5	32.9	36.1	23.5	25.9
5000	26.5	21.6	26.4	33.9	30.8	35.3	25.5	32.5	37.2	16.1	19.2	12.6	18.4	18.5	26.8	24.6	29.6	13.7	16.1
6300	13.1	8.8	14.3	26.8	22.1	28.0	14.2	25.0	29.6	4.0	7.9	6.9	9.4	9.4	18.8	14.3	20.9	3.9	6.4
8000		9.2	15.6	26.8	22.1	28.0	14.2	25.0	29.6	4.0	7.9	6.9	9.4	9.4	18.8	14.3	20.9	3.9	6.4
10000					4.4			2.5	9.1						6.6	4.1			
12500						10.1													
15000						1.5													
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
(F-106 AIRCRAFT IN THE)) TEMP = 59 F) OMEGA 8.2	
(TEXAS ASE HUSH HOUSE)) BAR PRESS =29.92 IN HG) TEST 8F-707-001	
()) REL HUMID = 70 %) RUN 02	
()) DELTA N = 0.0 DB) AIRCRAFT CODE 707	
(TEXAS ASE HUSH HOUSE)) ANGLE (DEGREES)) OPERATION CODE 00116	
										80 90 100 110 120 130 140 150 160 170 180) PROFILE VERSION A	
) 20 NOV 81	
) PAGE E3	
DISTANCE																					
(FEET)																					
200	79.6	70.2	70.7	62.1	62.3	64.2	77.2	82.4	86.2	78.7	80.7	80.3	81.4	80.3	81.1	78.5	80.2	77.4	73.5		
250	77.4	73.9	76.5	79.8	80.0	82.0	75.0	80.1	83.9	76.3	78.3	78.5	79.0	78.1	78.8	76.0	77.7	74.9	76.9		
315	75.1	71.5	74.2	77.5	77.7	79.8	72.7	77.9	81.7	74.0	75.9	76.1	76.6	75.8	76.5	73.5	75.1	72.4	74.3		
400	72.8	69.2	71.8	75.2	75.3	77.4	70.4	75.5	79.4	71.5	73.5	73.7	74.2	73.3	74.2	71.2	72.6	69.8	71.7		
500	70.4	66.7	69.4	72.8	72.8	75.0	68.0	73.1	77.0	69.0	71.0	71.2	71.7	70.8	71.7	68.7	70.0	67.1	69.0		
530	67.8	64.0	66.9	70.2	70.2	72.5	65.4	70.5	74.4	66.4	68.4	68.5	69.1	68.2	69.3	66.2	67.3	64.3	66.2		
800	65.1	61.3	64.1	67.5	67.5	69.9	62.7	67.9	71.8	63.5	65.5	65.6	66.2	65.3	66.6	63.5	64.5	61.4	63.3		
1000	62.1	58.3	61.4	64.7	64.6	67.1	59.8	65.0	69.0	60.3	62.3	62.3	63.0	62.1	63.9	60.6	61.6	58.0	60.1		
1250	59.0	55.2	58.4	61.7	61.6	64.0	56.6	61.9	65.9	56.6	58.7	58.7	59.4	58.5	60.8	57.3	58.6	54.1	56.7		
1500	55.5	51.8	55.0	58.5	58.3	60.7	53.2	58.6	62.6	52.6	54.5	54.5	55.2	54.3	57.4	53.6	55.2	50.4	52.9		
2000	51.7	47.8	51.3	54.9	54.5	57.2	48.9	54.9	59.1	48.6	49.5	49.3	50.5	49.8	53.6	49.4	51.4	46.3	47.8		
2500	47.1	43.2	46.7	50.7	49.9	53.4	44.0	50.2	54.3	43.4	44.5	43.8	45.3	44.8	49.3	44.5	47.0	40.7	41.6		
3150	41.4	38.1	41.9	46.3	45.0	48.5	38.3	45.0	50.2	37.2	38.8	37.8	39.1	38.4	44.3	39.2	41.8	33.4	33.9		
4000	35.1	31.8	35.9	41.1	39.1	42.3	33.0	39.7	44.3	27.6	30.4	27.6	30.3	27.3	37.2	32.9	36.1	24.1	25.9		
5000	27.2	22.3	29.1	35.0	32.2	36.5	25.5	33.6	37.9	16.1	19.2	13.0	18.8	18.6	30.0	24.6	29.6	14.2	16.1		
6300	13.6	7.3	19.3	27.6	23.0	28.8	14.2	25.7	30.0	4.6	7.9	7.2	9.4	9.4	19.7	14.3	20.9	4.2	6.4		
8000	.0	3.4	16.0	8.9	19.2	3.0	14.1	19.5	19.5	4.6	7.9	.1	13.1	4.1	12.5	4.1	12.5	4.2	6.4		
10000			4.4			10.1		2.5	9.1						0.6		4.1				
12500						1.5									.5						
16000																					
20000																					
25000																					

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
(F-106 AIRCRAFT IN THE)										TEMP = 59 F										
(TEXAS ASE HUSH HOUSE)										BAR PRESS =29.92 IN HG										
()										REL HUMID = 70 %										
()										DELTA N = 0.0 DB										
()) IDENTIFICATION:										
()) OMEGA 8.2										
()) TEST BF-707-001										
()) RUN 02										
()) AIRCRAFT CODE 707										
()) OPERATION CODE 00116										
()) PROFILE VERSION A										
()) 20 NOV 81										
()) PAGE G3										
DISTANCE										ANGLE (DEGREES)										
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	66.3	63.3	67.2	71.2	69.8	71.8	64.8	70.1	73.3	64.0	65.0	64.9	65.0	64.3	68.0	65.0	66.4	62.3	62.2	
250	64.2	61.8	65.1	69.1	67.7	69.7	62.7	68.0	71.2	62.0	62.9	62.8	63.9	62.8	65.9	62.9	64.3	60.2	60.2	
315	62.1	59.6	63.0	66.9	65.6	67.5	60.6	65.9	69.0	59.9	60.8	60.8	61.8	60.7	63.8	60.8	62.2	58.1	58.0	
400	59.9	57.4	60.8	64.8	63.4	65.4	58.5	63.7	66.8	57.8	58.7	58.6	59.7	58.6	61.7	58.7	60.1	55.3	55.9	
500	57.7	55.2	58.6	62.5	61.1	63.2	56.3	61.5	64.6	55.5	56.5	56.4	57.4	56.4	59.5	56.5	57.9	53.7	53.7	
630	55.4	52.9	56.3	60.3	58.8	60.9	54.0	59.2	62.3	53.2	54.1	54.1	55.1	54.0	57.3	54.2	55.7	51.4	51.5	
800	53.0	50.6	54.0	57.9	56.5	58.6	51.7	56.9	59.9	50.8	51.7	51.6	52.7	51.5	54.9	51.9	53.4	49.0	49.1	
1000	50.5	48.1	51.5	55.5	54.0	56.2	49.3	54.5	57.4	48.2	49.1	49.0	50.1	49.0	52.5	49.5	51.1	46.6	46.8	
1250	47.9	45.5	49.0	53.0	51.5	53.7	46.8	52.0	54.7	45.5	46.4	46.2	47.3	46.2	50.0	46.9	48.7	44.0	44.2	
1500	45.2	42.9	46.4	50.4	48.8	51.1	44.2	49.4	52.0	42.6	43.5	43.2	44.3	43.2	47.4	44.3	46.1	41.3	41.5	
2000	42.3	40.0	43.6	47.6	46.0	48.3	41.4	46.6	49.1	39.5	40.4	39.9	41.1	40.0	44.6	41.5	43.4	38.4	38.5	
2500	39.2	36.9	40.7	44.6	43.0	45.3	38.5	43.7	46.0	36.1	37.1	36.4	37.7	36.5	41.6	38.5	40.5	35.2	35.3	
3150	35.8	33.6	37.4	41.4	39.8	42.0	35.3	40.4	42.6	32.4	33.5	32.6	34.0	32.9	38.4	35.2	37.4	31.8	31.8	
4000	31.8	29.6	33.6	37.5	35.7	38.0	31.7	36.5	38.6	28.4	29.6	28.3	29.9	28.3	34.2	31.5	33.9	27.9	27.9	
5000	27.4	25.1	29.3	33.2	31.3	33.5	27.8	32.2	34.3	24.2	25.4	24.0	25.6	24.7	29.6	27.5	29.9	23.7	23.8	
6300	22.6	20.3	24.8	28.6	26.5	28.8	23.5	27.6	29.6	19.7	21.0	19.3	21.1	20.2	24.8	23.2	25.6	19.2	19.4	
8000	17.9	15.6	20.2	23.8	21.7	24.3	19.3	23.0	24.9	16.0	17.2	15.2	16.8	16.3	20.6	19.1	21.7	15.2	15.8	
10000	12.8	10.6	15.2	18.5	16.5	19.2	14.7	18.0	19.8	12.1	13.3	11.1	12.5	12.2	16.2	14.8	17.4	10.9	12.1	
12500	7.7	5.5	10.0	13.2	11.4	14.7	9.7	12.9	14.6	8.1	9.2	7.2	8.3	8.1	11.9	10.2	12.9	6.7	8.3	
15000	2.5	.2	4.4	7.4	5.8	9.6	4.3	7.5	9.1	4.0	5.1	3.4	4.3	4.3	7.3	5.5	8.0	2.4	4.6	
20000			1.2			4.2	1.9	3.3		.0	1.1	.7	.5	.5	2.6	.8	3.1		1.2	
25000																				

TABLE 8. NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

[illegible]

	P=PNLT	A=A/L	T=ALT	
(.	.	.	(
0
(.	.	.	.
10	.	.	.AT	.
(.	.	.	.
20	.	.	.AT	.
(.	.	.	.
30	.	.	.A.T.	.
(.	.	.	.
40	.	.	A T	.
(.	.	.	.
50	.	.	AT	.
(.	.	.	.
60	.	.	.X.	.
(.	.	.	.
70	.	.	AT	.
(.	.	.	.
80	.	.	AT	.
(.	.	.	.
90	.	.	X	.
(.	.	.	.
D	.	.	X	.
E
100	.	.	AT	.
(.	.	.	.
G	.	.	.AT	.
R
110
(.	.	.	.
E
120	.	.	.AT	.
(.	.	.	.
S	.	.	X	.
130
(.	.	AT	.
140
(.	.	.	.
150	.	.	.X.	.
(.	.	.	.
160	.	.	X	.
(.	.	.	.
170	.	.	AT	.
(.	.	.	.
180	.	.	X	.
(.	.	.	.
-10

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE)										(TEMP = 59 F)									
(MILITARY POWER (100%))										(BAR PRESS = 29.92 IN HG)									
(SINGLE ENGINE)										(REL HUMID = 70 %)									
(GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE)										(DELTA N = 0.0 DB)									
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.7	82.0	81.2	79.8	80.1	80.4	79.7	79.4	80.0	82.1	82.9	83.9	85.9	85.8	85.4	86.9	87.0	87.0	84.6
250	82.4	79.7	78.9	77.5	77.9	78.1	77.4	77.1	77.7	79.7	80.5	81.5	83.5	83.5	83.1	84.3	84.4	84.4	82.3
315	80.1	77.5	76.7	75.2	75.5	75.8	75.1	74.7	75.4	77.2	78.0	79.1	81.1	81.2	80.8	81.8	81.9	81.9	79.9
400	77.8	75.2	74.3	72.9	73.2	73.5	72.7	72.4	73.0	74.8	75.6	76.7	78.7	78.9	78.4	79.2	79.3	79.3	77.5
500	75.4	72.8	71.9	70.4	70.8	71.1	70.2	69.9	70.5	72.2	73.1	74.2	76.2	76.4	76.0	76.5	76.6	76.6	75.1
630	72.9	70.3	69.4	67.8	68.2	68.6	67.7	67.4	67.9	69.6	70.4	71.5	73.6	73.7	73.3	73.8	73.9	73.9	72.5
800	70.2	67.7	66.7	65.2	65.5	65.8	65.0	64.7	65.2	66.7	67.6	68.7	70.8	70.9	70.4	71.0	71.1	71.1	69.7
1000	67.4	64.9	63.9	62.5	62.9	62.9	61.9	61.6	62.2	63.5	64.3	65.5	67.7	67.9	67.4	68.1	68.2	68.2	66.7
1250	64.4	61.9	60.7	59.3	59.8	59.8	58.6	58.3	58.8	59.8	60.8	62.0	64.3	64.0	64.0	65.0	65.1	65.1	63.5
1500	61.1	58.7	57.2	55.5	55.9	56.4	55.0	54.7	55.1	55.7	56.7	58.0	60.6	60.3	60.2	61.5	61.7	61.7	60.1
2000	57.4	55.2	53.4	51.6	52.0	52.6	50.8	50.5	50.9	50.6	51.8	53.3	56.3	56.3	55.9	57.2	57.3	57.3	56.3
2500	53.3	51.0	48.8	46.7	46.9	47.6	45.5	45.3	45.8	45.1	46.3	48.2	51.1	51.5	50.9	52.7	52.3	52.3	52.1
3150	48.5	46.6	43.4	40.5	41.1	41.9	39.0	38.4	39.7	38.7	40.1	42.4	45.6	45.7	45.2	47.4	47.1	47.1	46.9
4000	42.0	41.8	38.6	34.3	34.8	36.3	31.5	31.5	31.2	29.8	32.2	34.5	39.9	39.1	37.9	40.8	40.5	40.5	41.6
5000	35.3	36.3	28.6	26.2	26.7	29.3	20.2	20.2	19.8	18.2	20.0	24.1	30.2	31.1	29.5	33.8	33.1	33.1	34.8
6300	28.5	29.8	17.2	13.2	13.6	20.8	8.2	8.2	7.4	6.0	7.9	13.7	19.7	19.5	16.2	24.9	24.2	24.2	26.9
8000	15.2	21.3	5.7	2	4.5	8.0						3.3	9.3	6.3	3.0	14.5	15.4	15.4	17.1
10000	4.0	11.4													4.0	6.5	6.5	10.3	
12500		1.5																3.9	
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
F-106 AIRCRAFT IN THE										OMEGA 8.2									
TEXAS ASE HUSH HOUSE										TEST BF-707-001									
(OPERATIONS)										RUN 03									
(MILITARY POWER (100%)										METEOROLOGY:									
(SINGLE ENGINE										TEMP = 59 F									
(GROUND RUNUP IN THE										BAR PRESS =29.92 IN HG									
(TEXAS ASE HUSH HOUSE										REL HUMID = 70 %									
										DELTA N = 0.0 DB									
										AIRCRAFT CODE 707									
										OPERATION CODE 00104									
										PROFILE VERSION A									
										20 NOV 81									
										PAGE F2									

ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.8	70.3	66.3	65.1	65.4	66.1	63.7	63.5	64.0	65.7	67.1	67.7	63.5	70.2	69.4	69.8	69.1	69.1	69.2
250	67.7	68.2	64.2	63.0	63.3	64.0	61.6	61.3	61.9	63.6	65.1	65.7	67.4	68.2	67.3	67.7	67.0	67.0	67.0
315	65.5	66.1	62.1	60.9	61.2	61.9	59.5	59.2	59.7	61.5	63.0	63.6	65.4	66.1	65.2	65.6	64.9	64.9	64.9
400	63.4	64.0	59.9	58.8	59.0	59.7	57.3	57.0	57.6	59.4	60.9	61.4	63.2	64.0	63.1	63.5	62.8	62.8	62.7
500	61.1	61.8	57.7	56.5	56.8	57.5	55.1	54.8	55.3	57.2	58.6	59.2	61.0	61.8	60.9	61.3	60.6	60.6	60.5
630	58.9	59.6	55.4	54.3	54.5	55.2	52.8	52.5	53.0	54.8	56.2	56.9	58.7	59.4	58.5	59.0	58.4	58.4	58.2
800	56.5	57.3	53.1	51.9	52.2	52.9	50.4	50.1	50.6	52.4	53.7	54.5	56.3	56.9	56.0	56.6	56.1	56.1	55.9
1000	54.1	54.9	50.6	49.4	49.7	50.5	47.9	47.7	48.1	49.8	51.1	51.9	53.7	54.3	53.3	54.2	53.7	53.7	53.5
1250	51.5	52.5	48.0	46.9	47.2	48.0	45.3	45.1	45.4	47.0	48.2	49.1	50.9	51.5	50.5	51.6	51.3	51.3	51.0
1500	48.9	49.9	45.2	44.2	44.5	45.4	42.5	42.3	42.5	44.0	45.2	46.1	48.0	48.5	47.5	48.9	48.7	48.7	48.4
2000	46.1	47.3	42.3	41.3	41.7	42.7	39.6	39.4	39.6	40.8	41.9	42.9	44.8	45.4	44.3	46.0	45.8	45.8	45.7
2500	43.1	44.4	39.2	38.2	38.7	39.7	36.4	36.3	36.4	37.3	38.3	39.5	41.4	41.3	40.8	42.9	42.8	42.8	42.7
3150	39.8	41.3	35.8	34.9	35.4	36.6	33.0	32.9	33.0	33.6	34.4	35.7	37.8	38.2	37.1	39.6	39.5	39.5	39.4
4000	36.1	37.9	32.0	31.2	31.7	33.0	29.2	29.2	29.2	29.6	30.2	31.7	33.8	34.1	33.0	35.9	35.8	35.8	35.7
5000	32.1	33.9	27.9	27.1	27.6	29.0	25.1	25.1	25.1	25.4	26.0	27.4	29.6	29.8	28.8	31.8	31.7	31.7	31.5
6300	27.6	29.6	23.3	22.6	23.2	24.6	20.6	20.6	20.6	20.9	21.5	22.9	25.2	25.3	24.3	27.5	27.3	27.3	27.0
8000	23.2	25.6	19.0	18.3	18.9	20.5	16.5	16.4	16.5	17.0	17.8	19.0	21.3	21.5	20.2	23.3	23.4	23.4	23.2
10000	18.5	21.2	14.4	13.7	14.4	16.0	12.2	12.1	12.2	13.0	14.0	14.9	17.2	17.5	15.9	18.9	19.3	19.3	19.1
12500	13.5	16.4	9.6	8.9	9.6	11.1	7.6	7.5	7.8	9.1	10.3	10.9	13.0	13.4	11.7	14.4	15.1	15.1	14.7
16000	8.3	11.1	4.8	3.9	4.6	5.9	3.0	2.8	3.4	5.3	6.6	7.1	9.0	9.4	7.6	9.9	10.8	10.8	9.9
20000	2.9	5.2	.1			.4				1.8	3.2	3.4	5.1	5.4	3.8	5.8	6.8	6.8	4.8
25000										.0	1.5	.0	1.5	1.5	.2	2.1	3.1	3.1	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
F-106 AIRCRAFT IN THE																				
TEXAS ASE HUSH HOUSE																				
(OPERATION:)																				
(MILITARY POWER (100%))																				
(SINGLE ENGINE)																				
(GROUND RUNUP IN THE)																				
(TEXAS ASE HUSH HOUSE)																				
METEOROLOGY:)																				
TEMP = 59 F)																				
BAR PRESS = 29.92 IN HG)																				
REL HUMID = 70 %)																				
DELTA N = 0.0 DB)																				
DISTANCE																				
ANGLE (DEGREES)																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	71.2	70.3	67.5	66.3	66.6	67.2	65.2	64.9	65.3	65.7	57.1	67.7	70.4	70.8	70.3	71.0	70.2	70.2	70.2	70.6
250	69.1	68.2	65.4	64.2	64.5	65.1	63.1	62.8	63.2	63.6	55.1	65.7	68.4	68.7	68.2	68.9	68.1	68.1	68.5	68.5
315	67.0	66.1	63.3	62.0	62.4	63.0	60.9	60.6	61.1	61.5	53.0	63.6	66.3	66.5	66.0	66.8	66.0	66.0	66.4	66.4
400	64.8	64.0	61.1	59.9	60.2	60.9	58.0	58.5	58.9	59.4	50.9	61.4	64.2	64.5	64.0	64.6	63.9	63.9	64.2	64.2
500	62.6	61.3	58.9	57.7	58.0	58.6	56.5	56.2	56.7	57.2	48.6	59.2	62.0	62.3	61.8	62.4	61.7	61.7	62.0	62.0
630	60.4	59.0	56.5	55.4	55.7	56.4	54.2	53.9	54.4	54.8	46.2	56.9	59.6	59.9	59.4	60.1	59.5	59.5	59.7	59.7
800	58.0	57.3	54.3	53.0	53.4	54.1	51.6	51.5	52.0	52.4	43.7	54.5	57.2	57.5	56.9	57.8	57.2	57.2	57.3	57.3
1000	55.6	54.9	51.8	50.6	50.9	51.7	49.3	49.1	49.4	49.8	41.1	51.9	54.6	54.8	54.3	55.3	54.8	54.8	54.9	54.9
1250	53.0	52.5	49.2	48.0	48.4	49.2	46.7	46.5	46.8	47.0	38.2	49.1	51.8	52.0	51.4	52.8	52.3	52.3	52.4	52.4
1500	50.4	49.9	46.4	45.3	45.7	46.5	43.9	43.7	44.0	44.0	35.2	46.1	48.9	49.1	48.4	50.1	49.7	49.7	49.9	49.9
2000	47.6	47.3	43.5	42.4	42.9	43.8	41.0	40.8	41.0	40.8	32.3	42.9	45.7	45.9	45.2	47.2	46.9	46.9	47.2	47.2
2500	44.6	44.4	40.4	39.3	39.9	40.9	37.8	37.7	37.6	37.3	29.3	39.5	42.3	42.3	41.7	44.1	43.9	43.9	44.2	44.2
3150	41.3	41.3	37.0	36.0	36.6	37.7	34.4	34.3	34.3	33.0	26.4	35.7	38.7	38.7	38.0	40.7	40.5	40.5	40.9	40.9
4000	37.3	37.9	33.0	32.1	32.7	33.9	30.4	30.3	30.3	29.6	23.0	31.7	34.5	34.5	33.8	36.8	36.6	36.6	36.9	36.9
5000	32.9	33.9	28.6	27.8	28.3	29.7	25.9	25.9	25.9	25.4	20.0	27.4	30.2	30.1	29.4	32.5	32.3	32.3	32.4	32.4
5300	28.2	29.6	23.8	23.1	23.7	25.1	21.2	21.1	21.1	20.9	17.5	22.9	25.5	25.3	24.7	27.9	27.7	27.7	27.5	27.5
6000	23.5	25.6	19.2	18.5	19.2	20.7	16.8	16.7	16.8	17.0	14.8	19.0	21.4	21.5	20.4	23.6	23.6	23.6	23.5	23.5
10000	18.5	21.2	14.4	13.7	14.4	16.0	12.2	12.1	12.2	13.0	11.0	14.9	17.2	17.5	15.9	18.9	19.3	19.3	19.1	19.1
12500	13.5	16.4	9.6	8.9	9.6	11.1	7.5	7.5	7.8	9.1	10.3	10.9	13.0	13.4	11.7	14.4	15.1	15.1	14.7	14.7
16000	8.3	11.1	4.8	3.9	4.6	5.9	3.0	2.8	3.4	5.3	6.6	7.1	9.0	9.4	7.8	9.9	10.8	10.8	9.9	9.9
20000	2.9	5.2	.1			.4				1.8	3.2	.0	5.1	5.4	3.8	5.8	6.8	6.8	4.8	4.8
25000													1.5	1.6	.2	2.1	3.1	3.1	3.1	3.1

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 707																			
(F-106 AIRCRAFT IN THE (AFTERBURNER POWER (100%)) TEMP = 59 F) OPERATION CODE 00103																			
(TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE 01																			
BAND CENTER ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	74	76	76	83	85	75	86	83	82	85	89	90	93	95	96	97	94	101
63	75	73	72	75	77	78	72	80	73	82	82	83	84	85	89	91	92	90	95
80	74	73	73	74	73	74	70	75	75	80	83	83	82	81	79	82	84	81	85
100	76	73	73	72	71	70	69	70	73	79	80	83	81	79	79	80	81	77	80
125	75	74	70	71	68	71	67	72	70	75	77	79	79	78	77	75	77	74	75
160	70	67	66	67	66	67	65	67	66	72	75	78	76	75	75	71	72	69	69
200	67	63	62	62	64	64	63	62	63	69	72	73	74	74	74	69	71	67	68
250	67	65	63	61	62	63	64	59	60	66	70	74	76	75	75	74	70	64	67
315	62	64	58	57	56	54	53	53	55	61	63	69	68	67	69	66	66	62	64
400	61	68	59	55	56	54	51	51	52	57	59	62	61	63	61	62	64	61	63
500	60	69	61	61	62	61	59	59	55	57	58	60	60	62	60	61	64	62	62
630	65	69	61	62	63	65	62	61	59	59	58	58	60	62	63	62	63	63	60
800	64	70	60	60	61	63	54	60	59	60	60	61	61	61	63	62	62	62	59
1000	64	66	61	60	61	62	59	58	57	59	60	61	62	61	64	64	64	61	59
1250	67	66	64	63	65	64	60	60	58	60	60	62	64	63	66	67	67	62	59
1600	70	68	65	65	65	66	59	59	61	59	59	62	64	64	67	65	64	60	56
2000	62	65	59	60	59	58	54	54	56	56	57	61	62	63	62	59	59	56	53
2500	53	56	54	54	54	53	47	48	52	54	54	57	59	56	65	56	61	55	51
3150	45	54	50	45	47	48	46	46	53	54	52	54	55	53	53	53	54	56	50
4000	45	49	48	43	45	45	45	45	52	52	49	51	50	50	57	51	58	54	49
5000	49	49	49	45	46	46	45	45	52	53	49	50	49	50	53	50	49	51	48
6300	49	47	49	44	44	44	45	43	50	51	47	48	47	48	60	48	47	49	47
8000	48	46	45	45	45	45	45	44	43	51	47	47	47	48	61	47	47	46	46
10000	45	43	42	40	41	41	38	40	45	47	44	44	45	44	53	45	45	45	45
OVERALL	84	82	82	82	85	86	79	87	86	87	89	92	93	94	97	98	98	96	102

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)															IDENTIFICATION:				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															OMEGA 8-2				
															TEST BF-707-001				
															RUN 04				
NOISE SOURCE/SUBJECT:															AIRCRAFT CODE 707				
F-106 AIRCRAFT IN THE															OPERATION CODE 00103				
TEXAS ASE HUSH HOUSE															PROFILE VERSION A				
															REL HUMID = 70 %				
															20 NOV 81				
															DELTA N = 0.0 DB				
															PAGE D1				
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.6	90.4	87.1	86.6	87.1	87.8	83.0	86.9	86.4	89.3	90.4	93.3	93.9	94.9	97.1	96.3	97.0	94.2	98.0
250	88.6	88.2	84.8	84.3	84.8	85.5	80.6	84.4	83.8	87.0	88.1	90.9	91.6	92.5	95.0	94.2	94.9	92.1	96.0
315	86.3	86.0	82.5	82.1	82.5	83.2	78.5	81.8	81.3	84.0	85.8	88.5	89.1	90.5	92.8	92.1	92.8	89.3	93.8
400	84.0	83.6	80.2	79.7	80.2	80.9	76.1	79.2	78.3	82.1	83.3	86.1	86.5	88.0	90.5	89.9	90.6	87.5	91.7
500	81.6	81.3	77.8	77.3	77.8	78.5	73.7	76.5	76.4	79.5	80.8	83.6	83.8	85.3	87.9	87.5	88.3	84.8	89.5
630	79.1	78.8	75.3	74.8	75.3	76.0	71.1	73.8	73.8	76.9	78.2	81.0	81.1	82.5	85.1	84.7	85.5	82.0	87.3
800	76.5	76.3	72.7	72.2	72.7	73.4	68.5	71.0	71.1	74.1	75.4	78.2	78.3	79.7	82.2	81.9	82.7	79.2	84.9
1000	73.9	73.6	70.0	69.5	70.0	70.7	65.7	68.1	68.3	70.9	72.4	75.0	75.4	76.8	79.3	79.0	79.8	76.3	82.0
1250	70.9	70.7	67.0	66.6	67.1	67.8	62.8	65.2	65.2	67.5	69.0	71.6	72.3	73.8	76.2	76.0	76.8	73.3	79.0
1500	67.8	67.6	63.7	63.3	63.8	64.6	59.2	61.6	61.9	63.8	65.3	68.2	69.0	70.5	72.9	72.8	73.6	70.0	75.8
2000	64.4	64.2	60.1	59.7	60.2	61.0	55.4	57.4	58.0	60.6	62.2	64.1	64.9	66.4	68.8	68.6	69.4	65.8	71.5
2500	60.6	60.5	56.2	55.8	56.3	57.0	51.2	52.6	53.7	56.1	57.6	59.5	60.3	61.7	64.0	63.9	64.7	61.0	66.5
3150	56.3	56.3	51.5	51.3	51.8	52.6	46.5	47.8	48.4	50.6	52.4	54.2	55.3	56.2	58.5	58.4	59.3	55.4	60.8
4000	51.3	51.7	47.3	45.2	45.7	46.9	40.4	41.4	41.8	43.8	45.6	48.1	49.5	49.5	52.3	52.1	53.0	48.7	54.4
5000	45.8	46.4	39.2	39.0	39.4	40.3	34.4	35.1	35.3	36.0	37.9	41.2	42.9	43.0	45.5	44.2	45.1	40.4	46.8
6300	38.7	40.7	32.2	31.9	32.9	33.9	28.1	28.4	28.1	27.6	28.1	33.2	34.4	34.1	37.6	37.0	37.7	33.4	36.8
8000	30.9	35.6	23.0	24.0	25.3	28.1	20.1	21.0	21.8	19.1	18.9	23.3	24.4	26.5	28.6	29.5	30.5	25.5	30.9
10000	22.9	29.4	10.8	12.2	14.7	18.1	9.7	9.2	5.4	10.5	9.8	13.4	8.5	13.5	17.6	18.4	21.0	15.9	24.7
12500	11.3	19.2		.3	4.1	7.7				1.9	.6	3.5		.4	6.8	7.2	11.6	6.3	17.6
16000																	2.1		10.5
20000																			3.5
25000																			

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (F-106 AIRCRAFT IN THE
 (TEXAS ASE HUSH HOUSE
 (OPERATION:
 (AFTERBURNER POWER (100%)
 (SINGLE ENGINE
 (GROUND RUNUP IN THE
 (TEXAS ASE HUSH HOUSE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 9F-707-001
 (RUN 04
 (AIRCRAFT CODE 707
 (OPERATION CODE 00103
 (PROFILE VERSION A
 (20 NOV 81
 (PAGE J1

	P=PNLT										T=ALT									
	A=AL																			
	0	10	20	30	40	50	60	70	80	90	100									
A
N
G
L
E
I
N
D
E
G
R
E
S
100
110
120
130
140
150
160
170
180

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOU, E(F-111F A/C)

DURING GROUND RUN-UP OPERATIONS

TEST BF-708-001
AIRCRAFT CODE: 708
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8-2

Power Setting

[illegible]

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED. PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

tone-corrected. A-weighted overall sound level

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AIRIGHT-PATTERSON AIR FORCE BASE, LABORATORY

HUSH HOUSE (F-111F A/C)
 HUSH HOUSE (F-111F A/C)
 HUSH HOUSE (F-111F A/C)
 HUSH HOUSE (F-111F A/C)
 HUSH HOUSE (F-111F A/C)

HOUSE(F-111F A/C)
HOUSE(F-111F A/C)
HOUSE(F-111F A/C)

HUSH HOUSE(F-11F A/G)
HUSH HOUSE(F-11F A/C)
HUSH HOUSE(F-11F A/C)

HUSH HOUSE(F-111F A/C)
HUSH HOUSE(F-111F A/C)
HUSH HOUSE(F-111F A/C)

TABLE: PERCEIVED NOISE LEVEL (PNdB)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
F-111F AIRCRAFT IN THE																		
TEXAS ASE HUSH HOUSE																		
OPERATION:																		
80% RPM																		
SINGLE ENGINE																		
GROUND RUNUP IN THE																		
TEXAS ASE HUSH HOUSE																		
DELTAN = 3.0 DB																		
DISTANCE																		
(FEET)																		
ANGLE (DEGREES)																		
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
200	77.4	75.7	76.0	77.2	76.0	75.7	74.6	77.7	76.2	69.1	70.6	71.7	71.6	74.7	74.7	74.7	74.7	74.7
250	75.1	73.4	74.3	74.9	73.7	73.4	72.3	75.3	73.9	66.7	68.3	69.4	63.4	72.5	72.5	72.5	72.5	72.5
315	72.7	71.0	71.9	72.5	71.3	71.0	69.9	72.9	71.5	64.3	66.0	67.2	67.2	70.2	70.2	70.2	70.2	70.2
400	70.2	68.5	69.5	70.0	68.8	68.6	67.5	70.5	69.1	61.7	63.5	64.5	64.5	67.8	67.8	67.8	67.8	67.8
500	67.7	66.0	66.9	67.5	66.3	66.0	64.9	68.0	66.5	59.0	61.0	62.4	62.5	65.3	65.3	65.3	65.3	65.3
630	65.1	63.3	64.2	64.7	63.6	63.3	62.2	65.2	63.8	55.1	56.2	59.7	60.0	62.7	62.7	62.7	62.7	62.7
800	62.3	60.5	61.4	61.9	60.8	60.5	59.4	62.3	60.8	52.9	54.2	56.3	57.2	59.9	59.9	59.9	59.9	59.9
1000	59.3	57.5	58.4	58.8	57.7	57.5	56.2	59.0	57.5	49.3	52.0	53.7	54.2	56.8	56.8	56.8	56.8	56.8
1250	56.1	54.2	55.1	55.4	54.4	54.4	53.0	55.5	54.0	45.4	48.2	50.2	50.9	53.3	53.3	53.3	53.3	53.3
1600	52.7	50.8	51.4	51.8	50.6	50.9	48.8	51.9	50.3	40.9	44.0	46.7	47.2	49.4	49.4	49.4	49.4	49.4
2000	48.9	46.6	46.9	47.7	46.1	46.5	44.7	48.0	46.3	36.0	39.1	42.5	43.2	44.9	44.8	44.8	44.8	44.8
2500	44.2	41.7	41.9	42.8	41.4	41.8	40.0	42.6	41.0	29.8	32.2	37.0	37.9	39.0	39.6	39.6	39.6	39.6
3150	39.1	36.9	36.8	37.8	36.4	37.0	35.0	36.7	35.0	22.3	24.5	30.5	31.1	33.9	33.9	33.9	33.9	33.9
4000	33.4	30.1	30.3	31.2	30.0	30.2	27.9	30.0	27.2	14.8	10.0	20.9	21.7	20.3	26.3	26.3	26.3	26.3
5000	24.8	20.9	21.9	23.0	21.8	21.8	18.5	19.8	17.0	7.3		9.9	10.8	17.2	17.2	17.2	17.2	17.2
6300	9.6	11.8	13.5	7.2	13.7	13.4	9.2	9.5	6.8					6.1	3.1	8.1	9.1	9.1
8000	2.7	5.0			5.5	5.0												
10000																		
12500																		
16000																		
20000																		
25000																		

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS A&E HUSH HOUSE

OPERATION:
(80% RPM
(SINGLE ENGINE
(GROUND RUNUP IN THE
(TEXAS A&E HUSH HOUSE

METEOROLGY:
(TEMP = 59 F
(BAR PRESS = 29.92 IN HG
(REL HUMID = 70 %
(DELTA N = 3.0 DB

IDENTIFICATION:
(OMEGA 8.2
(TEST 8F-708-001
(RUN 01

AIRCRAFT CODE 768
(OPERATION CODE 00113
(PROFILE VERSION A
(20 NOV 81
(PAGE F5

ANGLE (DEGREES)

DISTANCE
(FEET)

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.9	63.0	63.4	64.2	62.8	62.9	62.0	63.0	61.8	55.5	57.2	59.0	59.4	61.7	61.7	61.7	61.7	61.7	61.7
250	62.7	60.8	61.3	62.0	60.7	60.8	59.9	60.9	59.7	53.3	55.1	56.9	57.4	59.9	59.6	59.6	59.6	59.6	59.6
315	60.5	58.6	59.1	59.8	58.5	58.6	57.7	58.7	57.6	51.1	53.1	54.8	55.3	57.5	57.5	57.5	57.5	57.5	57.5
400	58.2	56.4	56.9	57.5	56.3	56.4	55.5	56.6	55.5	48.8	50.9	52.7	53.2	55.3	55.3	55.3	55.3	55.3	55.3
500	55.9	54.1	54.6	55.2	54.0	54.1	53.3	54.4	53.2	46.4	48.7	50.2	51.0	53.1	53.1	53.1	53.1	53.1	53.1
630	53.5	51.7	52.3	52.8	51.7	51.8	51.0	52.1	50.9	44.1	46.4	48.2	49.0	50.8	50.8	50.8	50.8	50.8	50.8
800	51.0	49.3	49.9	50.4	49.3	49.4	48.6	49.7	48.6	41.6	44.0	45.9	46.5	48.5	48.5	48.5	48.5	48.5	48.5
1000	48.5	46.9	47.4	47.8	46.9	47.0	46.2	47.2	46.1	39.0	41.5	43.5	44.1	46.1	46.1	46.1	46.1	46.1	46.1
1250	45.9	44.3	44.9	45.2	44.3	44.4	43.6	44.6	43.5	36.4	38.8	40.3	41.5	43.5	43.5	43.5	43.5	43.5	43.5
1600	43.2	41.6	42.2	42.4	41.6	41.7	41.0	41.9	40.9	33.6	36.0	38.3	39.0	40.9	40.8	40.8	40.8	40.8	40.8
2000	40.3	38.7	39.4	39.4	38.8	38.9	38.2	39.1	38.1	30.8	33.0	35.5	36.3	38.0	38.0	38.0	38.0	38.0	38.0
2500	37.2	35.7	36.3	36.2	35.8	35.8	35.2	36.0	34.9	27.7	29.7	32.4	32.8	35.0	35.0	35.0	35.0	35.0	35.0
3150	33.9	32.3	33.1	32.8	32.5	32.5	32.0	32.5	31.5	24.3	26.2	29.0	29.4	31.7	31.7	31.7	31.7	31.7	31.7
4000	30.3	28.7	29.4	29.1	28.9	28.9	28.4	28.7	27.8	20.7	22.4	25.2	25.5	28.1	28.1	28.1	28.1	28.1	28.1
5000	26.2	24.5	25.4	24.9	24.7	24.8	24.4	24.6	23.8	16.6	18.2	21.1	21.4	24.1	24.1	24.1	24.1	24.1	24.1
6300	21.7	20.0	21.0	20.4	20.3	20.3	20.0	20.2	19.2	12.1	13.8	16.7	16.9	19.8	19.8	19.8	19.8	19.8	19.8
8000	17.1	15.7	16.8	15.8	16.1	16.0	15.9	16.4	15.4	7.9	9.5	12.9	13.3	15.7	15.7	15.7	15.7	15.7	15.7
10000	12.1	11.0	12.2	10.8	11.6	11.4	11.3	12.4	11.4	3.4	5.9	8.9	9.3	11.3	11.3	11.3	11.3	11.3	11.3
12500	6.7	6.0	7.3	5.4	6.7	6.4	6.4	8.1	7.0	1.6	4.5	5.1	5.1	6.6	6.6	6.6	6.6	6.6	6.6
16000	.9	.6	1.9		1.4	1.0	1.1	3.6	2.4					1.3	1.6	1.6	1.6	1.6	1.6
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:																					
F-111F AIRCRAFT IN THE																					
TEXAS A&E HUSH HOUSE																					
(OPERATIONS:																					
(80% RPM																					
(SINGLE ENGINE																					
(GROUND RUNUP IN THE																					
(TEXAS A&E HUSH HOUSE																					
) METEOROLGY:																					
) TEMP = 59 F																					
) BAR PRESS =29.92 IN HG																					
) REL HUMID = 70 %																					
) DELTA N = 0.0 D3																					
DISTANCE																					
(FEET)																					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
200	66.5	63.0	63.4	65.3	62.8	64.0	62.0	64.9	63.8	61.7	58.7	59.0	53.4	51.7	51.7	51.7	51.7	51.7	51.7	51.7	61.7
250	64.3	60.8	61.3	63.1	60.7	61.9	59.9	62.8	61.7	59.5	55.1	56.9	51.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	59.5
315	62.1	58.6	59.1	60.8	58.5	59.7	57.7	60.7	59.6	57.3	53.1	54.8	48.7	47.9	47.9	47.9	47.9	47.9	47.9	47.9	57.5
400	59.8	56.4	56.9	58.6	56.3	57.5	55.5	58.5	57.4	55.0	50.9	52.7	46.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	55.3
500	57.5	54.1	54.6	56.2	54.0	55.2	53.3	56.3	55.2	52.8	48.7	50.5	44.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	53.1
630	55.1	51.7	52.3	53.8	51.7	52.9	51.0	54.0	52.9	50.5	46.4	48.2	42.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	50.8
800	52.6	49.3	49.9	51.4	49.3	50.5	48.6	51.6	50.5	48.1	44.0	45.9	40.2	39.3	39.3	39.3	39.3	39.3	39.3	39.3	48.5
1000	50.1	46.9	47.4	48.8	46.9	48.1	46.2	49.2	48.1	45.7	41.6	43.5	37.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	46.1
1250	47.5	44.3	44.9	46.2	44.3	45.5	43.6	46.6	45.5	43.1	39.0	40.9	35.2	34.3	34.3	34.3	34.3	34.3	34.3	34.3	43.5
1600	44.8	41.6	42.2	43.4	41.6	42.8	41.0	43.9	42.8	40.4	36.3	38.2	32.5	31.6	31.6	31.6	31.6	31.6	31.6	31.6	40.8
2000	41.9	38.7	39.4	40.4	38.8	40.0	38.2	41.0	40.0	37.6	33.5	35.4	29.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	38.0
2500	38.8	35.7	36.3	37.3	35.8	36.9	35.2	37.9	36.8	34.4	30.3	32.2	26.6	25.7	25.7	25.7	25.7	25.7	25.7	25.7	35.0
3150	35.5	32.3	33.1	33.9	32.5	33.6	32.0	34.5	33.4	31.0	26.9	28.8	23.2	22.3	22.3	22.3	22.3	22.3	22.3	22.3	31.7
4000	31.6	28.7	29.4	29.9	28.9	29.8	28.4	30.3	29.3	26.9	22.8	24.7	19.2	18.3	18.3	18.3	18.3	18.3	18.3	18.3	28.1
5000	27.2	24.5	25.4	25.5	24.7	25.4	24.4	26.7	25.6	23.2	19.1	21.0	15.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	24.1
6300	22.4	20.0	21.0	20.8	20.3	20.8	20.0	20.9	20.0	17.6	13.5	15.4	10.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	19.8
8000	17.4	15.7	16.8	16.0	15.1	16.2	15.9	16.8	15.8	13.4	9.3	11.2	6.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	15.7
10000	12.1	11.0	12.2	10.6	11.6	11.4	11.3	12.4	11.4	9.0	5.9	7.8	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	11.3
12500	6.7	6.0	7.3	5.4	6.7	6.4	6.4	8.1	7.0	4.7	1.6	3.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.6
16000	.9	.6	1.9		1.4	1.0	1.1	3.6	2.4				.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
20000																					
25000																					

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		OMEGA 8.2																		
DISTANCE = 250 FEET		TEST BF-708-001																		
		RUN 02																		
NOISE SOURCE/SUBJECT:		METEOROLOGY:																		
(F-111F AIRCRAFT IN THE		TEMP = 59 F																		
(TEXAS ASE HUSH HOUSE		BAR PRESS = 29.92 IN HG																		
(		REL HUMID = 70 %																		
(		DELTA N = 0.0 DB																		
(		AIRCRAFT CODE 708																		
(		OPERATION CODE 00110																		
(		PROFILE VERSION A																		
(		20 NOV 81																		
(		PAGE C4																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	49<	51<	47<	51<	66	47<	69	71	70	67	65	68	67	67	71	71	71	71	71	71
63	49<	51<	47<	51<	63	47<	64	67	65	65	68	66	66	66	66	66	66	66	66	66
80	49<	51<	47<	51<	62<	47<	63<	62<	67	64<	71	65<	65<	65<	64<	64<	64<	64<	64<	64<
100	49<	51<	47<	51<	61<	47<	61<	63<	65<	62<	68<	63<	63<	63<	63<	63<	63<	63<	63<	63<
125	49<	51<	47<	51<	60<	47<	60<	62<	64<	61<	65<	62<	62<	62<	62<	62<	62<	62<	62<	62<
160	49<	51<	47<	51<	59<	47<	58<	60<	62<	59<	63<	60<	60<	60<	60<	60<	60<	60<	60<	60<
200	49<	51<	47<	51<	58<	47<	57<	59<	60<	58<	60	59<	59<	59<	59<	59<	59<	59<	59<	59<
250	49<	51<	47<	51<	57<	47<	55<	57<	58	56<	58<	57<	60<	57<	57<	57<	57<	57<	57<	57<
315	49<	51<	47<	51<	56<	47<	54	55	58	55<	56<	55<	53<	56<	56<	56<	56<	56<	56<	56<
400	49	51<	47<	51<	55<	47<	49	51	55	53<	55<	54<	47	54<	54<	54<	54<	54<	54<	54<
500	50	51<	47<	51<	54<	47	51	49	55	52<	53<	52<	50	53<	53<	53<	53<	53<	53<	53<
630	51<	51<	48<	51<	53<	48<	50	48<	51	50<	51<	51<	43	51<	51<	51<	51<	51<	51<	51<
800	51<	51<	43<	51<	52<	48<	52	47<	43<	49<	49<	49<	43<	49<	50<	50<	50<	50<	50<	50<
1000	52<	51<	50<	51<	51<	49<	52<	46<	48<	47<	47<	47<	44<	47<	48<	48<	48<	48<	48<	48<
1250	53	51<	51	51	50<	50<	51	45<	45<	46<	45<	45<	47<	47<	47<	47<	47<	47<	47<	47<
1600	55	53	53	51	49	50	50	44<	44<	44<	43<	44<	47	46	46	46	46	46	46	46
2000	51	52	53	52	50	47	49	43<	43<	43<	41<	43<	45	45	45	45	45	45	45	45
2500	47	51	52	52	51	47	47	42	41	41	39	41	47	43	43	43	43	43	43	43
3150	45	45	46	43	43	42	47	46	45	42	38	40	45	42	42	42	42	42	42	42
4000	40	40	43	39	38	37	41	43	42	39	36	38	42	39	39	39	39	39	39	39
5000	44	42	43	41	38	38	44	41												

TABLE: PERCEIVED NOISE LEVEL (PNDS)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 708																			
F-111F AIRCRAFT IN THE ((85% RPM) TEMP = 59 F) OPERATION CODE 00118																			
TEXAS ASE HUSH HOUSE ((SINGLE ENGINE) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
((GROUND RUNUP IN THE ((REL HUMID = 70 %) 20 NOV 81																			
((TEXAS ASE HUSH HOUSE) DELTA N = 0.0 08) PAGE D4																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.2	76.4	75.3	76.7	77.8	72.8	77.1	76.9	76.8	74.3	76.6	74.7	73.0	75.2	72.9	75.2	75.2	75.2	75.2
250	73.9	74.1	74.0	74.4	75.5	70.4	74.8	74.4	74.2	72.0	74.2	72.2	75.3	72.9	72.9	72.9	72.9	72.9	72.9
315	71.6	71.7	71.7	72.0	73.2	68.1	72.4	71.7	72.2	65.8	71.6	70.1	72.0	70.7	70.7	70.7	70.7	70.7	70.7
400	69.2	69.3	69.2	69.6	70.8	65.6	69.9	69.0	69.3	67.4	69.4	67.9	71.0	68.3	68.3	68.3	68.3	68.3	68.3
500	66.7	66.7	66.6	67.1	68.3	63.0	67.3	66.4	67.4	65.0	66.9	65.3	63.0	65.9	65.9	65.9	65.9	65.9	65.9
630	64.1	64.0	63.9	64.4	65.6	60.3	64.6	63.5	64.8	62.4	64.2	62.3	60.2	63.4	63.4	63.4	63.4	63.4	63.4
800	61.3	61.2	61.1	61.6	62.8	57.4	61.7	60.5	62.2	59.6	61.3	60.0	63.2	60.6	60.6	60.6	60.6	60.6	60.6
1000	58.4	58.1	58.0	58.5	59.7	54.2	58.6	57.2	59.1	56.6	58.3	56.9	53.9	57.7	57.7	57.7	57.7	57.7	57.7
1250	55.3	54.9	54.6	55.3	56.4	50.9	55.2	53.3	55.9	53.3	54.7	53.6	55.3	54.4	54.4	54.4	54.4	54.4	54.4
1600	51.9	51.4	51.0	51.6	52.7	46.9	51.2	49.1	52.4	49.6	51.1	50.0	52.0	50.8	50.8	50.8	50.8	50.8	50.8
2000	47.9	47.1	46.7	47.4	48.2	42.0	46.7	44.5	48.0	45.0	46.9	45.0	47.1	45.9	45.9	45.9	45.9	45.9	45.9
2500	43.2	42.3	41.8	42.5	43.4	38.0	41.3	38.9	43.7	40.3	41.6	40.5	41.4	41.6	41.6	41.6	41.6	41.6	41.6
3150	38.2	37.4	36.3	37.4	38.2	32.1	35.9	31.4	37.8	33.7	36.0	33.9	35.1	35.1	35.1	35.1	35.1	35.1	35.1
4000	32.2	30.8	29.2	30.2	32.3	24.7	29.9	20.4	30.4	27.2	26.3	25.0	23.2	25.2	25.2	25.2	25.2	25.2	25.2
5000	23.9	22.4	20.4	22.1	23.6	9.9	20.6	9.4	22.0	16.2	17.3	16.0	12.5	17.8	17.8	17.8	17.8	17.8	17.8
6300	8.3	13.9	11.6	14.0	11.2		7.2		11.0	7.1	8.3	7.2		7.1	7.1	7.1	7.1	7.1	7.1
8000		5.5	2.8	5.9															
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
F-111F AIRCRAFT IN THE																				
TEXAS A&E HUSH HOUSE																				
OPERATION:																				
85% RPM																				
SINGLE ENGINE																				
GROUND RUNUP IN THE																				
TEXAS A&E HUSH HOUSE																				
METEOROLGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
200	77.5	77.0	77.0	76.3	75.4	72.0	70.2	79.0	77.4	74.3	76.6	75.9	78.6	75.2	73.2	75.2	75.2	75.2	75.2	75.2
250	75.2	74.7	74.7	76.0	77.1	70.4	75.9	76.5	75.2	72.0	74.2	73.6	75.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9
315	72.6	72.3	72.3	73.6	74.8	68.1	73.5	73.8	72.3	69.8	71.8	71.3	74.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
400	70.4	69.9	69.8	71.2	72.3	65.0	71.0	71.1	70.5	67.4	69.4	69.0	71.6	68.3	68.3	68.3	68.3	68.3	68.3	68.3
500	67.9	67.3	67.3	68.7	69.8	63.0	68.5	68.5	68.1	65.0	66.9	66.5	69.0	65.9	65.9	65.9	65.9	65.9	65.9	65.9
630	65.4	64.6	64.6	66.0	67.2	60.3	65.7	65.6	65.5	62.4	64.2	64.0	66.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4
800	62.6	61.8	61.7	63.2	64.4	57.4	62.8	62.8	62.8	59.8	61.3	61.2	63.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6
1000	59.7	58.7	58.6	60.2	61.3	54.2	59.7	59.3	59.8	56.8	58.3	58.1	60.9	57.7	57.7	57.7	57.7	57.7	57.7	57.7
1250	56.5	55.5	55.2	56.9	57.9	50.9	56.3	55.4	56.6	53.6	54.7	54.8	57.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4
1600	53.2	52.0	51.6	53.2	54.2	46.9	52.3	51.2	53.1	49.8	51.1	51.2	52.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2000	49.2	47.7	47.3	49.0	49.7	42.6	47.8	47.0	49.3	45.8	46.9	47.2	47.1	46.9	46.9	46.9	46.9	46.9	46.9	46.9
2500	44.5	42.9	42.4	44.0	44.9	38.0	42.4	41.0	44.3	40.3	41.6	41.7	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6
3150	39.5	38.0	36.9	38.9	39.7	32.1	37.0	33.5	38.5	33.7	36.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
4000	33.2	31.3	29.8	31.5	33.6	24.7	30.8	22.1	30.9	25.2	26.3	26.5	25.2	26.5	26.5	26.5	26.5	26.5	26.5	26.5
5000	24.7	22.7	20.8	23.1	24.6	9.9	21.3	10.7	22.4	16.2	17.3	17.3	12.5	17.8	17.8	17.8	17.8	17.8	17.8	17.8
6300	8.9	14.2	11.9	14.7	12.2		7.6		11.3	7.1	8.3	8.0		7.1	7.1	7.1	7.1	7.1	7.1	7.1
8000		5.6	2.9	6.2																
10000																				
12500																				
16000																				
20000																				
25000																				

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OAS)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-111F AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
85% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
DELTA N = 0.0 DB																			
METEOROLOGY:																			
TEMP = 53 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
AIRCRAFT CODE 700																			
OPERATION CODE 00118																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE F4																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 8F-708-001																			
PUN 02																			
ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	63.8	63.5	63.2	63.5	63.9	60.4	63.2	61.7	63.1	61.1	62.4	61.4	63.6	62.0	62.0	62.0	62.0	62.0	62.0
250	61.6	61.4	61.1	61.3	61.8	58.2	61.1	59.4	61.0	59.0	60.4	59.3	61.0	59.3	59.3	59.9	59.9	59.9	59.9
315	59.5	59.2	58.9	59.2	59.7	56.1	58.9	57.2	58.7	56.3	58.3	57.2	59.5	57.3	57.3	57.9	57.9	57.9	57.9
400	57.2	57.0	56.6	57.0	57.5	53.9	56.7	54.9	56.0	54.8	56.2	55.1	57.3	55.7	55.7	55.7	55.7	55.7	55.7
500	55.0	54.7	54.3	54.7	55.3	51.0	54.4	52.5	54.6	52.6	54.1	52.9	55.0	53.5	53.5	53.5	53.5	53.5	53.5
630	52.7	52.4	51.9	52.4	53.0	49.3	52.1	50.1	52.3	50.3	51.8	50.6	52.6	51.3	51.3	51.3	51.3	51.3	51.3
800	50.3	50.0	49.5	50.0	50.7	47.0	49.7	47.6	50.0	45.0	49.4	48.3	50.1	49.0	49.0	49.0	49.0	49.0	49.0
1000	47.8	47.5	46.9	47.6	48.3	44.5	47.3	45.0	47.0	45.0	47.0	45.9	47.4	45.0	45.0	46.6	46.6	46.6	46.6
1250	45.3	44.9	44.3	45.0	45.7	42.0	44.7	42.2	42.0	43.0	44.3	43.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0
1500	42.6	42.2	41.5	42.3	43.1	39.3	41.9	39.4	42.3	40.3	41.5	40.3	41.5	41.3	41.3	41.3	41.3	41.3	41.3
2000	39.8	39.4	38.6	39.5	40.3	36.5	39.1	36.3	39.2	37.5	38.6	37.6	38.3	38.5	38.5	38.5	38.5	38.5	38.5
2500	36.8	36.3	35.4	36.5	37.2	33.5	36.0	33.0	36.3	34.4	35.3	34.6	34.9	35.4	35.4	35.4	35.4	35.4	35.4
3150	33.6	33.0	32.0	33.2	33.9	30.2	32.7	29.3	32.8	31.0	31.6	31.2	31.2	32.0	32.0	32.0	32.0	32.0	32.0
4000	30.0	29.3	28.3	29.5	30.2	26.0	29.1	25.4	28.9	27.2	27.7	27.3	27.2	28.2	28.2	28.2	28.2	28.2	28.2
5000	25.9	25.2	24.2	25.4	26.0	22.5	25.1	21.1	24.6	23.0	23.4	23.1	23.0	24.0	24.0	24.0	24.0	24.0	24.0
6300	21.5	20.7	19.6	21.0	21.6	18.2	20.6	16.6	20.1	18.6	19.0	18.7	18.6	19.5	19.5	19.6	19.6	19.6	19.6
8000	17.0	16.4	15.1	16.6	17.7	13.9	16.7	12.9	16.6	14.9	15.4	15.0	14.5	15.9	15.9	15.9	15.9	15.9	15.9
10000	12.2	11.8	10.2	12.2	13.5	9.1	12.2	9.0	12.6	10.9	11.7	11.1	10.9	11.9	11.9	11.9	11.9	11.9	11.9
12500	7.0	6.8	4.9	7.3	9.0	4.0	7.4	4.9	8.7	6.6	7.7	5.9	5.8	7.0	7.0	7.0	7.0	7.0	7.0
16000	1.3	1.4		1.9	4.1		2.3	.6	4.4	2.1	3.6	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.1
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				IDENTIFICATION: OMEGA 8.2 TEST 3F-708-001 RUN 02 AIRCRAFT CODE 708 OPERATION CODE 00118 PROFILE VERSION A 20 NOV 81 PAGE G4			
NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS A&E HUSH HOUSE												METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB											
(OPERATIONS: 85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS A&E HUSH HOUSE																							
ANGLE (DEGREES)																							
DISTANCE (FEET)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180			
200	65.1	64.2	63.9	65.0	65.4	60.4	64.3	63.8	63.7	61.1	62.4	62.0	63.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0			
250	62.9	62.0	61.7	62.9	63.3	58.2	62.2	61.2	61.7	59.0	60.4	60.2	61.6	59.3	59.3	59.9	59.9	59.9	59.9	59.9			
315	60.7	59.8	59.5	60.7	61.2	56.1	60.0	59.3	59.6	56.9	58.3	58.4	59.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9			
400	58.5	57.6	57.2	58.5	59.0	53.9	57.8	57.0	57.4	54.8	56.2	56.3	57.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7			
500	56.3	55.3	54.9	56.3	56.8	51.6	55.5	54.6	55.2	52.6	54.1	54.1	55.0	53.2	53.2	53.5	53.5	53.5	53.5	53.5			
630	54.0	53.0	52.6	54.0	54.5	49.3	53.2	52.2	53.0	50.3	51.0	51.8	52.6	51.3	51.3	51.3	51.3	51.3	51.3	51.3			
800	51.6	50.6	50.1	51.6	52.2	47.0	50.8	49.7	50.7	48.0	49.4	49.5	50.1	49.0	49.0	49.0	49.0	49.0	49.0	49.0			
1000	49.1	48.1	47.6	49.1	49.8	44.5	48.4	47.1	48.3	45.6	47.0	47.1	47.4	46.5	46.5	46.6	46.6	46.6	46.6	46.6			
1250	46.6	45.5	44.9	46.6	47.2	42.0	45.8	44.3	45.7	43.0	44.3	44.5	44.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0			
1500	43.9	42.8	42.2	43.9	44.6	39.3	43.1	41.5	43.0	40.3	41.5	41.8	41.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3			
2000	41.1	40.0	39.2	41.1	41.8	36.5	40.2	38.4	40.2	37.5	38.6	39.0	39.3	38.5	38.5	38.5	38.5	38.5	38.5	38.5			
2500	38.1	36.9	36.1	38.0	38.8	33.5	37.1	35.1	37.0	34.4	35.3	35.8	35.9	35.4	35.4	35.4	35.4	35.4	35.4	35.4			
3150	34.8	33.6	32.7	34.7	35.4	30.2	33.8	31.4	33.4	31.0	31.6	32.3	31.2	32.0	32.0	32.0	32.0	32.0	32.0	32.0			
4000	31.0	29.8	28.8	30.8	31.4	26.6	30.0	27.0	29.4	27.2	27.7	28.3	27.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2			
5000	26.7	25.6	24.6	26.4	27.0	22.6	25.8	22.3	25.0	23.0	23.4	23.3	23.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0			
6300	22.0	21.0	19.9	21.6	22.2	18.2	21.3	17.5	20.4	18.6	19.0	19.2	18.6	19.5	19.5	19.6	19.6	19.6	19.6	19.6			
8000	17.3	16.5	15.2	17.1	18.0	13.9	16.9	13.3	16.7	14.9	15.4	15.3	14.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9			
10000	12.2	11.8	10.2	12.2	13.5	9.1	12.2	9.0	12.9	10.9	11.7	11.1	10.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9			
12500	7.0	6.8	4.9	7.3	9.0	4.0	7.4	4.9	8.7	6.8	7.7	6.9	6.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6			
16000	1.3	1.4		1.9	4.1	2.3	2.3	.8	4.4	2.1	3.6	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1			
20000																							
25000																							

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-11F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
(85% RPM
(SINGLE ENGINE
(GROUND RUNUP IN THE
(TEXAS ASE HUSH HOUSE

METEOROLOGY:
(TEMP = 59 F
(BAR PRESS = 29.92 IN HG
(REL HUMID = 70 %
(DELTA N = 0.0 D3

IDENTIFICATION:
(OMEGA 8.2

TEST 3F-708-001
RUN 02

AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J4

F=PNLT

A=AL

T=ALT

	-20	-10	0	10	20	30	40	50	60	70	80
A
N
G
L
E
I
N
D
E
G
R
E
S
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
F-111F AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATION:																			
95% RPM																			
TEMP = 59 F																			
BAR PRESS = 29.32 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 708																			
OPERATION CODE 00116																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE C3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST BF-708-001																			
RUN 03																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	71	67	72	73	72	74	73	75	73	76	75	75	77	80	80	80	80	80	80
63	66	65	68	70	70	68	71	71	74	76	76	76	76	73	73	73	73	73	73
80	64	63	64	65	67	68	66	72	71	72	74	73	74	72	72	72	72	72	72
100	62	62	62	63	64	65	64	70	67	70	71	71	71	70	70	70	70	70	70
125	61	60	60	61	61	62	62	67	64	67	69	69	69	66	66	66	66	66	66
160	59	58	58	59	59	59	60	65	60	65	66	67	65	66	66	66	66	66	66
200	57	56	56	56	56	55	58	62	57	62	64	65	67	66	66	66	66	66	66
250	55	54	54	54	53	52	56	60	53	60	61	65	70	69	69	69	69	69	69
315	54	52	52	52	50	49	54	58	50	54	54	57	59	61	61	61	61	61	61
400	53	50	50	50	47	46	52	55	46	50	50	52	52	54	54	54	54	54	54
500	56	57	55	56	56	56	50	53	51	48	49	52	52	53	53	53	53	53	53
630	57	55	53	54	52	56	50	50	51	49	49	50	50	52	52	52	52	52	52
800	55	50	51	51	51	52	49	50	50	50	51	51	51	51	51	51	51	51	51
1000	57	51	52	53	53	52	49	50	50	49	51	51	51	51	51	51	51	51	51
1250	60	56	54	55	56	55	50	51	50	49	51	53	53	53	53	53	53	53	53
1600	60	57	54	53	54	54	50	47	50	49	48	51	54	54	54	54	54	54	54
2000	56	54	52	52	52	50	48	46	43	48	49	51	52	53	53	53	53	53	53
2500	52	51	49	51	51	47	45	42	45	47	47	47	50	48	48	48	48	48	48
3150	48	40	40	42	42	41	39	39	44	47	46	46	47	47	47	47	47	47	47
4000	42	38	39	40	39	37	35	37	43	46	45	45	44	46	46	46	46	46	46
5000	49	44	43	42	42	42	38	39	45	47	46	46	45	47	47	47	47	47	47
6300	46	45	43	44	42	42	36	38	44	46	45	43	44	45	45	45	45	45	45
8000	46	45	42	42	41	42	37	37	43	45	43	42	44	44	44	44	44	44	44
10000	43	39	37	37	37	35	34	35	41	41	39	38	41	40	40	40	40	40	40
OVERALL	74	72	75	76	76	77	76	79	77	80	81	81	82	82	82	82	82	82	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

XXX = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-111F AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATION:)																			
(95% RPM)																			
(SINGLE ENGINE)																			
(GROUND RUNUP IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
METEOROLOGY:)																			
TEMP = 59 F)																			
BAR PRESS = 29.92 IN HG)																			
REL HUMID = 70 %)																			
DELTA N = 0.0 DB)																			
AIRCRAFT CODE 708)																			
OPERATION CODE 00115)																			
PROFILE VERSION A)																			
20 NOV 81)																			
PAGE 03)																			
IDENTIFICATION:)																			
OMEGA 8.2)																			
TEST 9F-708-001)																			
RUN 03)																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	82.0	79.1	78.0	78.7	78.7	76.1	75.9	79.0	77.8	80.2	81.1	81.3	83.9	83.8	83.8	83.8	83.8	83.8	83.8
250	79.7	76.8	75.7	76.4	76.4	75.8	73.6	76.6	75.4	77.8	78.6	79.1	81.6	81.5	81.6	81.6	81.6	81.6	81.6
315	77.4	74.5	73.4	74.0	74.1	73.5	71.3	74.3	73.0	75.4	76.2	76.8	79.3	79.2	79.2	79.2	79.2	79.2	79.2
400	75.0	72.1	71.1	71.6	71.7	71.1	68.9	71.8	70.5	72.9	73.7	74.4	77.0	76.9	76.9	76.9	76.9	76.9	76.9
500	72.6	69.7	68.6	69.1	69.2	68.7	66.5	69.3	67.9	70.3	71.2	71.9	74.5	74.4	74.4	74.4	74.4	74.4	74.4
630	70.1	67.1	66.0	66.5	66.6	66.1	63.9	66.7	65.3	67.7	68.5	69.2	71.8	71.7	71.7	71.7	71.7	71.7	71.7
800	67.3	64.3	63.2	63.7	63.8	63.4	61.1	63.8	62.5	64.8	65.6	66.4	69.0	68.8	68.8	68.8	68.8	68.8	68.8
1000	64.5	61.4	60.2	60.5	60.6	60.3	58.0	60.9	59.4	61.8	62.6	63.3	65.8	65.8	65.8	65.8	65.8	65.8	65.8
1250	61.4	58.2	57.1	57.3	57.3	57.1	54.5	57.3	55.8	58.1	59.0	59.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4
1600	58.1	54.8	53.6	53.9	53.8	53.8	50.6	53.4	51.7	53.6	54.8	55.9	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2000	54.4	50.9	49.5	49.6	49.6	49.4	46.2	49.4	47.1	48.5	49.5	51.1	54.0	54.1	54.1	54.1	54.1	54.1	54.1
2500	50.1	45.9	44.2	45.0	44.8	45.0	41.2	44.5	41.8	43.4	44.0	45.8	48.7	48.9	48.9	48.9	48.9	48.9	48.9
3150	44.6	40.4	38.4	39.3	38.8	38.7	34.4	38.2	35.2	37.2	37.3	39.8	42.6	42.7	42.7	42.7	42.7	42.7	42.7
4000	39.0	34.8	33.0	33.9	33.1	33.4	27.6	29.2	27.4	28.5	28.5	30.0	34.0	34.4	34.4	34.4	34.4	34.4	34.4
5000	33.4	27.9	25.0	26.9	26.2	26.7	16.4	19.6	18.7	14.2	14.4	19.3	23.9	25.4	25.4	25.4	25.4	25.4	25.4
6300	25.3	17.0	13.0	16.0	13.8	15.5	5.1	10.3	9.9	1.9	2.3	9.3	13.9	16.4	16.4	16.4	16.4	16.4	16.4
8000	10.5	6.2	1.0	5.1	1.4	4.3		9.9	1.2				3.8	7.4	7.4	7.4	7.4	7.4	7.4
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE

OPERATION: 95% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 OB

IDENTIFICATION: OMEGA 8.2 TEST RF-708-001 RUN 03 AIRCRAFT CODE 709 OPERATION CODE 00115 PROFILE VERSION A 20 NOV 81 PAGE J3

	P=PNLT											A=AL	I=ALT											
	-10	0	10	20	30	40	50	60	70	80	90		-10	0	10	20	30	40	50	60	70	80	90	
0																								
10																								
20																								
30																								
40																								
50																								
60																								
70																								
80																								
90																								
100																								
110																								
120																								
130																								
140																								
150																								
160																								
170																								
180																								

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (AIRCRAFT CODE 708 F-111F AIRCRAFT IN THE (MILITARY POWER (96%) (TEMP = 59 F (OPERATION CODE 00104 TEXAS ASE HUSH HOUSE (SINGLE ENGINE (BAR PRESS = 29.92 IN HG (PROFILE VERSION A (GROUND RUNUP IN THE (REL HUMID = 70 % (20 NOV 81 (TEXAS ASE HUSH HOUSE (DELTA N = 0.0 DB (PAGE C2 (BAND CENTER (FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 (50 69 64< 64< 71 72 75 76 76 76 75 76 77 80 80 80 85 85 85 (63 65 64 65 67 73 69 67 71 74 75 77 75 74 74 79 71 79 (80 69 63< 63< 65< 68 68 66< 69 71 73 74 73 73 73 73 74 69 74 (100 67< 61< 61< 61< 64< 62< 62< 65< 65< 63< 71< 72< 71< 71< 71< 72< 67< 72< (125 65< 59< 59< 59< 61< 64< 62< 62< 62< 62< 66< 68< 70 69 69 69 66 62< 67 (160 63< 57< 56< 58< 61< 59< 59< 62< 60< 64< 66< 69< 67 69 69 69 66 62< 67 (200 61< 55< 56< 56< 60< 55< 57< 61< 57< 62 63 67 63 60 68 68 63 60< 63 (250 59 53< 54< 54< 58 53< 54< 59< 54< 60 63 65 70 70 70 70 66 58< 66 (315 53 51 52< 52 53< 50< 51 58< 51 55 55 58 60 63 63 63 56 58 57 (400 53 51 51 50 47 47 49 56< 48 50 49 53 54 55 55 55 55 59 (500 58 56 56 56 55 59 58 55< 52 50 49 51 54 55 55 59 55 59 (630 55 55 55 55 54 59 55 54< 51 51 49 53 54 55 55 54 54 59 (800 51 51 52 50 50 54 55 52< 51 51 51 50 54 55 55 58 51 58 (1000 52 52 52 52 51 53 51 51< 51< 50< 50< 51< 53 55 55 58 51 58 (1250 56 55 55 54 54 55 56 49< 51< 49< 48< 52 53 56 61 51< 61 (1600 57 56 56 55 54 55 55 50 49 50 48 53 54 56 56 58 52 58 (2000 59 59 59 59 56 51 51 45 48 47 47 53 54 56 54 54 54 54 (2500 46 46 46 49 50 48 48 46 46 46 46 49 52 51 51 52 48 52 (3150 44 45 45 44 40 42 44 44 46 46 45 48 49 49 49 50 46 50 (4000 43 43 43 38 37 40 42 41 45 46 44 47 47 47 47 48 45 48 (5000 43 44 43 41 40 43 45 43 46 47 44 46 45 48 49 49 45 48 (6300 43 43 42 42 40 42 45 42 45 45 44 46 46 46 47 47 44 46 (8000 44 42 41 45 40 41 44 44 45 46 42 43 44 44 44 46 43 46 (10000 41 39 39 42 38 38 41 40 41 40 38 39 39 41 41 41 43 43 (OVERALL 75 71 71 74 75 78 78 78 78 80 81 82 82 83 83 83 82 82 87 																		
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
F-111F AIRCRAFT IN THE																
TEXAS A&E HUSH HOUSE																
OPERATION:																
MILITARY POWER (96%)																
SINGLE ENGINE																
GROUND RUNUP IN THE																
TEXAS A&E HUSH HOUSE																
METEOROLOGY:																
TEMP = 53 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = 0.0 DB																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	82.1	80.6	80.6	80.9	79.7	79.3	79.0	78.0	78.5	79.7	80.0	82.7	84.4	85.3	85.3	87.3
250	79.9	78.3	78.4	78.6	77.4	77.0	77.3	75.6	76.0	77.3	78.2	80.4	82.1	83.0	83.0	84.7
315	77.6	76.0	76.1	76.3	75.1	74.6	74.9	73.2	73.5	74.9	75.7	78.0	79.8	80.7	80.7	82.2
400	5.2	73.7	73.7	73.9	72.7	72.3	72.6	70.9	71.0	72.4	73.3	75.6	77.4	78.3	78.3	79.6
500	12.7	71.2	71.3	71.5	70.3	69.8	70.1	68.4	68.4	69.8	70.7	72.9	75.0	75.8	75.8	76.9
630	70.2	68.6	68.7	68.9	67.7	67.3	67.6	65.9	65.8	67.2	68.1	70.2	72.3	73.1	73.1	74.2
800	67.5	65.9	65.9	66.1	64.9	64.0	64.8	63.2	63.0	64.3	65.2	67.4	69.4	70.3	70.3	71.4
1000	64.6	62.9	63.0	63.2	61.9	61.7	61.9	60.3	59.3	61.2	62.2	64.3	66.4	67.3	67.3	68.5
1250	51.4	59.8	59.8	60.0	58.7	58.6	58.6	57.1	56.2	57.5	58.6	60.9	63.1	64.0	64.0	65.4
1500	57.9	56.2	56.3	56.6	55.2	55.2	55.1	53.5	52.4	52.8	54.2	57.0	59.3	60.3	60.3	62.1
2000	54.2	52.5	52.5	52.8	51.2	51.6	51.1	49.7	47.9	48.3	49.1	52.3	54.9	56.0	56.0	57.8
2500	49.7	48.0	48.1	48.2	46.3	46.3	46.5	44.5	42.9	43.0	43.6	47.2	49.6	51.0	51.0	53.2
3150	44.3	42.6	42.5	42.7	40.4	41.7	40.0	38.9	37.8	37.5	37.4	41.4	43.0	45.4	45.4	47.1
4000	37.5	36.7	36.6	36.9	33.8	36.6	35.0	32.4	28.8	26.3	27.6	32.7	35.2	36.7	38.7	41.9
5000	30.8	29.5	29.3	29.6	25.7	30.7	28.4	22.6	19.6	17.0	15.6	20.5	27.5	30.5	30.5	35.0
6300	20.0	18.5	18.2	17.8	12.7	23.4	19.4	12.8	10.3	5.6	3.4	8.0	14.8	20.2	20.2	27.2
8000	8.5	7.4	7.0	6.1	13.9	13.9	8.5	3.1	1.1			2.1	9.9	9.9	9.9	18.5
10000																
12500																
16000																
20000																
25000																

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST HF-708-001
RUN 04
AIRCRAFT CODE 708
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2
METEOROLOGY:
TEMP = 53 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

P=PNLT

A=ALT

T=ALT

	-10	0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 708																			
(F-111F AIRCRAFT IN THE (AFTERBURNER POWER (96%)) TEMP = 59 F) OPERATION CODE 00103																			
(TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS =29.32 IN HG) PROFILE VERSION A																			
((GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
((TEXAS ASE HUSH HOUSE) DELTA N = 0.0 JB) PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	80	84	84	85	87	84	90	88	87	92	93	95	97	97	97	100	98	97	
63	77	77	79	81	83	83	85	85	85	87	88	90	93	93	93	96	91	91	
80	78	72	76	78	78	80	82	85	87	87	88	90	89	89	89	90	87	88	
100	76	71	73	75	76	76	78	79	85	86	87	90	88	88	88	87	86	86	
125	75	71	70	73	71	73	71	72	75	80	83	82	83	83	83	84	82	82	
160	70	68	66	69	67	67	66	70	71	76	79	79	80	79	79	81	80	79	
200	63	62	63	67	64	63	63	66	68	72	76	77	77	77	77	78	77	77	
250	63	61	61	63	62	62	62	64	67	71	75	75	73	77	77	76	74	74	
315	60	57	59	61	57	57	56	59	63	67	69	70	71	71	71	71	70	70	
400	58	58	56	59	55	56	55	56	60	63	64	66	65	68	68	66	69	69	
500	63	64	60	64	62	63	59	62	62	63	64	65	65	67	67	64	67	67	
630	62	62	60	62	60	64	59	60	64	62	64	63	65	67	67	65	68	68	
800	60	60	59	60	60	62	60	60	64	63	64	64	64	67	67	65	68	68	
1000	60	61	59	62	61	62	58	59	63	63	64	64	63	67	67	66	69	69	
1250	64	67	63	65	64	64	61	63	62	64	66	68	68	68	68	69	69	69	
1600	64	67	64	64	64	63	61	59	62	64	65	63	63	69	69	65	68	68	
2000	60	63	61	62	59	58	56	53	62	61	64	65	68	68	68	61	64	64	
2500	53	57	56	58	57	54	52	51	56	60	60	63	62	62	62	59	62	62	
3150	46	46	46	47	47	48	47	49	55	57	58	60	59	59	59	57	60	60	
4000	44	44	44	44	44	45	45	47	53	54	55	55	55	55	55	54	57	57	
5000	47	49	46	48	47	47	46	47	54	54	55	54	55	55	55	53	56	56	
6300	46	50	45	48	46	46	45	46	53	53	54	52	53	53	53	52	55	55	
8000	47	49	45	46	45	45	45	45	51	51	52	51	54	52	52	51	54	54	
10000	44	43	44	43	43	43	43	44	48	48	48	47	50	49	49	49	52	52	
OVERALL	85	83	86	87	87	89	88	92	92	93	95	98	100	100	100	102	99	98	

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
 OPERATION: AFTERBURNER POWER (96%)
 SINGLE ENGINE IN THE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB

IDENTIFICATION:
 OMEGA 8.2
 TEST 9F-708-001
 RUN 05
 AIRCRAFT CODE 708
 OPERATION CODE 00103
 PROFILE VERSION A
 20 NOV 81
 PAGE J1

	P=PNLT											A=AL											T=ALT													
	10	20	30	40	50	60	70	80	90	100	110	10	20	30	40	50	60	70	80	90	100	110	10	20	30	40	50	60	70	80	90	100	110			
NOISE LEVEL IN PNDB OR DBA																																				
0		
10		
20		
30		
40		
50		
60		
70		
80		
90		
100		
110		
120		
130		
140		
150		
160		
170		
180		

MUSH HOUSE(T-38 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST dF-709-001
AIRCRAFT CODE: 709
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 80% RPM	158
Military Power, 100% RPM	164
Afterburner Power, 100% RPM	170

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE PATTERNS
MERRISON AIR FORCE
LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE														
IDENTIFICATION: OMEGA 8-2 TEST BF-709-001 RUN 01 AIRCRAFT CODE 709 OPERATION CODE 00119 PROFILE VERSION A 20 NOV 81 PAGE C3														
METEOROLGY: TEMP = 59 F BAK PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB														
OPERATION: 60% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE														
BAND CENTER FREQ (HZ)														
ANGLE (DEGREES)														
50	60	59	55	54	59	60	58	62	61	58	56	57	57	55
63	58	59	54	56	59	57	57	62	60	58	56	57	60	54
80	69	66	54	55	59	53	54	57	50	59	54	54	56	55
100	62	61	61	56	58	57	58	57	50	58	56	60	58	57
125	62	59	59	59	56	55	56	54	51	55	55	53	54	49
160	55	55	50	50	51	48	50	50	45	50	48	49	50	47
200	52	54	48	52	47	45	45	46	41	45	43	47	48	44
250	52	51	43	48	45	44	42	45	42	44	42	46	48	43
315	50	46	45	43	42	40	37	41	37	40	39	43	44	40
400	45	44	38	41	41	36	32	35	34	37	34	42	41	35
500	41	40	38	40	39	35	31	35	33	37	34	41	44	38
630	40	40	37	38	38	32	32	36	34	37	35	40	44	38
800	42	36	34	36	37	34	33	35	35	38	39	42	43	37
1000	39	36	35	37	39	34	31	34	34	36	36	40	42	37
1250	41	37	35	36	37	36	32	36	34	36	35	39	41	38
1600	42	40	40	38	39	38	33	35	37	37	35	40	40	39
2000	39	34	38	36	37	35	32	32	33	35	33	37	36	36
2500	35	32	32	33	35	31	26	27	28	32	31	33	33	34
3150	34	28	27	28	31	25	23	25	26	33	30	32	30	35
4000	34	29	28	28	29	26	23	27	31	34	31	32	30	38
5000	33	28	28	27	29	24	23	27	30	30	29	31	30	33
6300	34	32	30	29	30	27	26	26	33	32	27	30	28	35
8000	36	37	33	32	35	32	30	29	34	33	28	34	31	34
10000	29	25	24	25	28	20	21	21	25	29	26	31	23	29
OVERALL	71	69	65	64	66	64	64	67	65	65	67	65	65	62

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	72.0	69.1	66.3	66.1	65.9	63.2	62.3	63.4	62.9	65.1	65.6	66.6	66.4	66.4	66.0	66.0
250	69.6	66.6	63.8	63.7	63.5	60.6	59.6	60.9	60.3	62.6	63.1	64.2	64.0	64.0	63.5	63.5
315	67.1	64.1	61.2	61.2	61.0	58.0	56.9	58.2	57.6	60.0	60.4	61.6	61.5	61.3	60.9	60.9
400	64.5	61.5	58.5	58.5	58.3	55.3	54.2	55.4	54.7	57.3	57.7	58.9	58.8	58.3	58.0	58.1
500	61.9	58.9	55.8	55.6	55.3	52.1	51.1	52.3	51.6	54.2	54.8	56.0	55.9	55.3	55.0	55.3
530	59.1	56.0	52.7	52.3	52.0	48.7	47.5	48.9	48.2	50.9	51.8	52.9	52.6	52.3	52.2	52.3
800	56.1	52.6	49.0	48.7	48.2	45.0	43.3	45.1	44.5	47.2	48.4	49.2	49.3	49.3	48.6	48.9
1000	52.8	48.9	44.7	44.5	44.5	40.6	38.6	40.8	40.3	43.1	44.3	45.2	45.9	45.3	44.6	45.2
1250	48.4	44.1	39.8	40.0	40.4	35.5	32.0	35.2	34.3	36.1	39.0	40.7	42.3	42.3	40.2	39.6
1500	43.2	38.8	34.8	34.4	35.2	29.3	20.8	28.0	26.0	32.1	32.1	36.0	37.6	37.5	34.5	32.8
2000	37.3	33.4	27.5	26.7	28.2	17.3	10.4	13.2	13.5	22.0	21.0	29.4	32.0	32.0	27.1	25.0
2500	29.4	23.9	15.7	17.0	17.2	7.3			1.0	12.0	7.2	20.8	25.0	25.0	13.1	17.1
3150	16.6	7.8	3.7	7.3	6.2					1.9		9.1	13.4	15.4	3.2	9.2
4000	3.7												3.8	5.3		1.3
5000																1.3
6300																
8000																
10000																
12500																
15000																
20000																
25000																

IDENTIFICATION:

OMEGA 8.2

TEST 8F-709-001

RUN 01

AIRCRAFT CODE 709

OPERATION CODE 00119

PROFILE VERSION A

20 NOV 81

PAGE 03

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT: (OPERATION:) METEORLOGY:) AIRCRAFT CODE 709																
T-38 AIRCRAFT IN THE (80% RPM) TEMP = 59 F) OPERATION CODE 00119																
TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE E3																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	73.1	70.5	67.2	67.1	66.9	64.5	63.4	64.3	64.1	55.1	56.8	57.7	67.0	67.0	67.3	66.6
250	70.6	68.0	64.7	64.7	64.4	61.9	60.7	61.7	61.5	52.6	54.3	65.2	64.6	64.5	64.8	64.1
315	68.2	65.5	62.1	62.2	61.9	59.3	58.1	59.1	58.8	50.0	51.7	62.7	62.1	62.1	62.2	61.5
400	65.6	62.9	59.5	59.5	59.2	56.6	55.4	56.3	55.8	47.3	48.9	60.0	59.4	59.4	59.5	58.7
500	63.0	60.2	56.8	56.6	56.3	53.4	52.3	53.2	52.8	44.2	46.1	57.1	56.5	56.5	56.5	55.9
630	60.2	57.4	53.7	53.3	52.9	50.0	48.6	49.8	49.4	40.9	43.0	54.0	53.1	53.1	53.2	53.0
800	57.2	54.0	50.0	49.7	49.1	46.3	44.4	46.0	45.7	37.2	39.6	50.3	49.9	49.9	49.6	49.5
1000	53.9	50.3	45.6	45.5	45.4	41.9	39.7	41.7	41.5	33.1	35.5	46.3	45.4	45.4	45.5	45.9
1250	49.5	45.5	40.7	41.0	41.3	36.8	33.2	36.1	36.1	28.1	30.2	41.8	42.9	42.9	41.1	40.4
1500	44.3	40.1	35.8	35.4	36.1	30.6	21.9	28.9	27.2	22.1	23.3	37.0	38.2	38.2	35.4	33.4
2000	38.4	34.8	28.6	27.7	29.2	18.6	11.5	14.1	14.7	12.0	12.2	30.4	32.6	32.5	28.0	25.6
2500	30.5	25.2	18.6	18.0	18.1	8.6	1.1	2.2	2.2	1.9	8.4	21.8	25.6	25.5	16.0	17.7
3150	17.7	9.2	4.7	8.3	7.1							10.2	16.0	16.0	4.1	9.8
4000	4.6											3.3	6.3			1.8
5000																1.8
6300																6.9
8000																
10000																
12500																
16000																
20000																
25000																

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
T-38 AIRCRAFT IN THE										OMEGA 8.2									
TEXAS ASE HUSH HOUSE										TEST 9F-709-001									
OPERATION:										RUN 01									
80% RPM										METEOROLOGY:									
SINGLE ENGINE										TEMP = 59 F									
GROUND RUNUP IN THE										BAR PRESS =29.92 IN HG									
TEXAS ASE HUSH HOUSE										REL HUMID = 70 %									
DELTA N = 0.0 DB										AIRCRAFT CODE 703									
										OPERATION CODE 00119									
										PROFILE VERSION A									
										20 NOV 81									
										PAGE F3									

ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	56.0	54.7	52.5	52.2	52.2	49.7	48.0	49.7	49.0	51.0	50.6	52.6	53.0	53.8	51.9	51.0	51.0	55.5	55.5
250	54.7	52.7	50.4	50.1	50.1	47.6	46.5	47.7	46.3	48.9	48.5	50.5	51.7	51.7	49.7	48.0	48.0	53.3	53.3
315	52.6	50.6	48.3	48.0	47.9	45.5	44.4	45.6	44.7	45.8	46.4	48.4	49.6	49.5	47.5	46.7	46.7	51.1	51.1
400	50.5	48.5	46.2	45.9	45.8	43.4	42.3	43.5	42.5	44.6	44.3	46.2	47.5	47.5	45.2	44.5	44.5	48.9	48.9
500	48.3	46.2	44.0	43.7	43.6	41.2	40.1	41.3	40.2	42.3	42.1	44.0	45.3	45.3	42.9	42.2	42.2	46.0	46.0
630	46.0	43.9	41.6	41.3	41.3	38.8	37.0	39.0	37.9	40.0	39.9	41.7	43.0	43.0	40.5	39.9	39.9	44.2	44.2
800	43.6	41.5	39.2	38.8	38.8	36.4	35.3	36.6	35.2	37.6	37.6	39.4	40.7	40.7	38.0	37.6	37.6	41.8	41.8
1000	41.1	39.0	36.7	36.3	36.3	33.8	32.6	34.1	33.0	35.0	35.1	36.9	38.3	38.3	35.5	35.2	35.2	39.2	39.2
1250	38.3	36.1	33.7	33.5	33.6	31.1	29.8	31.4	30.3	32.3	32.3	34.2	35.7	35.7	32.7	32.4	32.4	36.6	36.6
1600	35.3	33.1	30.6	30.5	30.7	28.2	26.7	28.4	27.4	29.3	29.3	31.5	33.1	33.1	29.8	29.5	29.5	33.7	33.7
2000	32.0	29.8	27.4	27.4	27.7	25.1	23.4	25.3	24.3	26.2	26.1	28.0	30.3	30.3	26.8	26.4	26.4	30.6	30.6
2500	28.5	26.3	23.9	24.1	24.4	21.7	19.8	21.8	20.9	22.9	22.7	25.5	27.3	27.3	23.6	23.1	23.1	27.4	27.4
3150	24.6	22.4	20.1	20.4	20.7	18.0	15.9	18.1	17.3	19.3	19.0	22.1	24.0	24.0	20.1	19.5	19.5	23.9	23.9
4000	20.5	18.1	15.9	16.3	16.8	14.0	11.7	14.1	13.3	15.4	15.0	18.4	20.4	20.4	16.4	15.7	15.7	20.0	20.0
5000	16.2	13.7	11.5	12.1	12.6	9.8	7.4	9.8	9.1	11.2	10.9	14.3	16.4	16.4	12.3	11.5	11.5	15.9	15.9
6300	11.6	9.1	6.9	7.6	8.1	5.3	2.9	5.4	4.6	6.8	6.6	10.0	12.1	12.1	7.9	7.1	7.1	11.4	11.4
8000	7.5	5.5	3.0	3.8	4.2	1.3		1.7	.7	2.9	2.8	6.1	8.2	8.2	3.7	3.3	3.3	7.3	7.3
10000	4.1	1.8			.1							1.9	4.0	4.0				3.1	3.1
12500	.4																		
16000																			
20000																			
25000																			

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
T-38 AIRCRAFT IN THE																		
TEXAS ASE HUSH HOUSE																		
OPERATION:																		
MILITARY POWER (100%)																		
SINGLE ENGINE																		
GROUND RUNUP IN THE																		
TEXAS ASE HUSH HOUSE																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = 0.0 DB																		
AIRCRAFT CODE 709																		
OPERATION CODE 00104																		
PROFILE VERSION A																		
20 NOV 81																		
PAGE C2																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	57	59	57	59	61	65	61	61	62	62	59	63	63	64	63	65	68
63	58	56	58	58	60	61	64	61	61	61	61	59	60	63	59	59	62	62
80	60	58	55	57	57	57	61	65	65	67	60	59	59	61	54	57	56	58
100	61	62	60	58	56	56	60	61	61	60	59	59	56	67	57	56	55	59
125	59	61	58	57	55	55	55	53	58	58	53	55	54	67	54	56	52	55
160	54	49	51	48	49	47	50	53	53	53	49	52	53	65	51	49	46	51
200	43	48	48	47	45	44	45	49	49	48	47	50	55	65	49	50	48	58
250	51	49	49	47	45	42	42	47	47	47	47	50	55	65	47	51	55	65
315	48	45	45	41	37	36	37	42	42	43	46	46	49	58	46	52	61	68
400	46	43	42	38	39	39	36	42	42	43	46	48	52	53	55	60	67	73
500	43	48	47	42	43	42	45	41	43	45	46	52	53	52	59	65	67	74
630	48	46	45	41	42	46	42	45	45	46	47	52	54	51	59	64	67	73
800	47	44	45	41	43	44	42	45	46	46	48	52	54	51	58	61	67	71
1000	47	45	45	43	45	45	42	44	44	45	47	51	54	51	58	62	66	67
1250	50	48	49	46	49	47	44	45	45	44	48	50	53	52	58	60	63	66
1600	53	52	51	48	51	48	44	44	44	43	48	50	52	51	55	58	60	65
2000	47	49	50	45	47	44	41	42	42	42	47	47	50	50	53	55	58	61
2500	39	41	44	40	44	39	34	41	41	38	43	43	47	45	48	50	54	56
3150	35	31	33	30	32	32	33	42	42	36	41	41	45	44	47	48	51	54
4000	35	31	32	28	29	30	31	40	40	35	39	37	44	41	44	44	47	49
5000	34	32	31	27	30	31	29	40	40	34	39	35	41	39	43	41	44	47
6300	34	33	32	27	30	31	29	38	38	33	34	32	39	37	40	39	42	46
8000	38	38	35	30	34	33	28	38	38	33	33	31	37	34	37	34	39	44
10000	29	28	27	23	26	28	23	34	34	33	31	28	33	28	30	28	32	35
OVERALL	68	67	67	65	66	66	69	69	69	70	67	67	68	74	70	72	76	80

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)										METEOROLOGY:					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	61.0	59.9	60.0	56.5	58.0	56.9	56.9	54.5	57.5	56.7	59.3	61.6	64.3	65.5	67.9	71.5
250	58.8	57.8	57.9	54.4	56.5	54.8	54.8	52.4	55.3	54.6	57.1	59.5	62.2	63.4	65.8	69.5
315	56.7	55.6	55.8	52.2	54.3	52.6	52.6	50.3	53.2	52.5	55.0	57.4	60.1	61.4	63.7	67.4
400	54.5	53.4	53.6	50.1	52.2	50.5	50.5	48.1	50.9	50.3	52.8	55.3	57.3	59.2	61.6	65.2
500	52.3	51.2	51.4	47.9	49.9	48.3	48.3	45.9	48.7	48.2	50.6	53.1	55.7	57.0	59.4	63.1
630	50.1	48.9	49.1	45.5	47.6	46.0	46.0	43.7	46.4	45.9	48.3	50.8	53.5	54.6	57.2	60.9
800	47.7	46.5	46.7	43.2	45.2	43.6	43.6	41.4	43.9	43.6	45.9	48.5	51.1	52.2	54.9	58.7
1000	45.3	44.1	44.2	40.7	42.7	41.2	41.2	38.9	41.4	41.2	43.5	46.2	48.8	49.6	52.6	56.4
1250	42.7	41.5	41.6	38.1	40.1	38.7	38.7	36.3	38.8	38.6	40.9	43.7	46.3	46.8	50.2	54.0
1600	40.0	38.7	38.9	35.3	37.4	36.0	36.0	33.6	36.0	35.8	38.3	41.1	43.7	43.9	47.7	51.6
2000	37.2	35.8	36.0	32.4	34.5	33.2	33.2	30.6	33.0	33.0	35.5	38.5	41.0	40.8	45.1	49.1
2500	34.1	32.7	32.8	29.2	31.3	30.3	30.3	27.5	29.9	29.9	32.4	35.6	38.1	37.5	42.3	46.3
3150	30.8	29.3	29.4	25.8	27.9	27.0	27.0	24.1	26.6	26.6	29.2	32.5	35.0	33.9	39.3	43.3
4000	27.0	25.5	25.7	22.0	24.2	23.4	23.4	20.4	22.9	22.9	25.6	29.0	31.5	30.0	35.8	39.8
5000	22.9	21.3	21.5	17.9	20.1	19.4	19.4	16.4	18.9	18.9	21.5	25.1	27.5	25.8	31.9	35.8
6300	18.4	16.7	16.9	13.4	15.5	15.0	15.0	12.0	14.6	14.6	17.2	20.8	23.3	21.3	27.6	31.5
8000	13.9	12.3	12.4	8.8	10.8	10.6	10.6	7.8	10.5	10.5	12.9	16.7	19.2	17.4	23.6	27.6
10000	9.2	7.5	7.6	3.8	5.7	6.0	6.0	3.4	6.2	6.2	8.3	12.3	14.7	13.2	19.2	23.4
12500	4.3	2.6	2.6		.3	1.0	1.0		1.6	1.6	3.3	7.4	9.8	8.8	14.3	18.7
16000											2.1	4.4	4.4	4.3	9.0	13.6
20000															3.1	7.9
25000															1.6	4.9

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

[illegible]

NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

**T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE**

TEXAS ASE HUSH HOUSE

(OPERATIONS

((MI_LITAFY POWER (100%)

(SINGLE ENGINE

((GROUND RUNUP IN THE

(TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

$$A_N = 0.0 \text{ dB}$$

IDENTIFICATION:

OMEGA 8.2

TEST BF-709-001

) RUN 02

) AIRCRAFT CODE 709

) OPERATION CODE 00104

1) PROFILE VERSION A

20 NOV 81

1 PAGE J2

P=PNLT

$$A = AL$$
$$i = ALT$$
[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
T-38 AIRCRAFT IN THE																			
TEXAS ASE HUSH HOUSE																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
BAND CENTER																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	66	62	65	62	65	65	67	69	63	64	64	68	68	71	70	74	75	68	76
63	61	60	64	63	61	64	63	67	65	63	63	64	64	67	63	67	69	64	69
80	62	59	62	60	62	62	61	65	64	62	62	63	63	67	60	65	63	62	64
100	65	59	61	57	60	58	59	61	60	63	63	66	66	62	59	59	58	60	62
125	66	60	59	57	63	60	59	61	61	66	66	63	63	59	57	58	56	56	62
160	60	53	54	53	53	54	53	54	52	60	60	60	60	58	56	56	56	58	60
200	54	50	51	49	49	50	48	50	46	55	55	58	58	60	58	55	58	58	61
250	57	52	52	52	50	48	47	46	46	54	54	57	57	62	61	56	60	67	64
315	53	48	47	43	43	39	41	43	41	53	53	51	51	56	54	51	58	70	68
400	49	47	46	43	43	45	38	42	40	53	53	52	52	57	54	55	60	70	72
500	53	52	51	47	51	49	46	46	46	53	53	54	54	59	54	60	62	70	75
630	50	49	49	44	45	46	43	46	43	53	53	54	54	58	53	59	62	63	74
800	48	46	46	42	45	46	44	46	42	52	52	54	54	59	53	59	62	66	73
1000	48	46	47	45	46	46	43	44	42	50	50	54	54	59	54	59	61	62	69
1250	51	50	51	48	50	48	46	45	44	50	50	54	54	57	55	59	59	58	65
1600	54	53	53	50	52	49	47	46	45	49	49	54	54	60	55	56	56	57	63
2000	50	49	52	48	50	46	43	43	44	46	46	52	52	57	53	54	55	54	61
2500	40	42	46	45	47	42	37	37	39	44	44	45	45	51	48	48	50	47	54
3150	34	33	34	33	36	34	33	35	33	44	44	45	45	51	48	48	50	47	54
4000	33	31	35	30	32	31	30	34	33	42	42	41	41	46	45	44	47	45	50
5000	35	35	37	30	31	31	30	33	38	42	42	39	39	42	43	42	46	43	47
6300	35	35	33	30	31	30	29	31	37	41	41	36	36	40	39	39	45	41	43
8000	38	37	35	31	34	31	31	31	36	40	40	37	37	37	36	36	41	41	40
10000	29	29	30	26	30	26	24	25	33	35	35	29	29	33	29	29	39	34	32
OVERALL	72	68	70	68	70	70	70	73	73	72	72	73	73	75	73	76	77	78	82

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(T-38 AIRCRAFT IN THE)										TEMP = 59 F									
(TEXAS ASE HUSH HOUSE)										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = 0.0 DB									
()										PAGE E1									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	77.6	76.0	76.3	73.4	76.4	73.3	71.9	71.0	71.0	77.5	79.1	79.1	82.2	79.6	80.2	82.3	86.4	90.1	
250	75.3	73.7	74.1	71.1	74.1	71.0	69.5	69.5	69.5	75.1	75.1	76.9	80.0	77.4	77.9	80.1	84.3	88.0	
315	73.1	71.4	71.8	68.8	71.8	68.7	67.2	67.1	67.1	72.7	72.7	74.6	77.7	75.1	75.7	77.8	82.1	85.8	
400	70.7	69.0	69.4	66.3	69.4	66.3	64.7	64.7	64.6	70.3	70.3	72.2	75.4	72.8	73.3	75.5	79.9	83.6	
500	68.2	66.5	66.9	63.8	66.9	63.7	62.1	62.2	62.0	67.8	67.8	69.8	73.0	70.4	71.0	73.1	77.6	81.3	
630	65.6	63.9	64.2	61.0	64.2	61.0	59.3	59.4	59.2	65.0	65.0	67.3	70.5	67.8	68.5	70.7	75.2	79.0	
900	62.9	61.1	61.3	58.1	61.4	58.1	56.4	56.4	56.0	62.0	62.0	64.6	67.9	65.0	65.9	68.1	72.8	76.6	
1000	59.9	58.1	58.3	55.1	58.4	55.0	53.1	53.0	52.5	58.8	61.7	61.7	65.1	62.2	63.2	65.4	70.3	74.1	
1250	56.6	54.8	55.1	51.8	55.2	51.6	49.3	49.3	48.0	55.3	58.4	58.4	62.1	59.1	60.3	62.5	67.6	71.5	
1600	53.1	51.3	51.5	47.6	51.4	47.3	44.9	45.0	44.3	51.5	55.0	55.0	58.9	55.7	57.2	59.5	64.8	68.7	
2000	48.8	47.0	48.0	42.6	46.8	42.6	39.7	40.1	38.4	47.6	50.7	50.7	55.3	51.7	53.9	56.2	61.9	65.9	
2500	44.0	41.9	41.2	37.2	41.0	36.7	33.0	32.4	30.9	43.0	45.9	45.9	50.3	46.6	49.7	52.2	58.3	62.6	
3150	38.2	36.2	35.7	31.2	35.5	31.0	26.1	24.7	22.3	37.4	40.2	40.2	45.9	41.4	45.4	48.0	54.3	58.7	
4000	30.8	29.2	29.0	22.0	28.7	22.8	13.7	15.4	7.8	30.4	34.1	34.1	40.4	35.2	40.5	43.3	49.9	54.6	
5000	20.6	18.9	18.9	8.8	17.5	7.8	1.3	6.0		21.5	25.6	25.6	33.8	27.2	35.0	37.6	44.5	49.8	
6300	10.7	8.6	8.9		6.3					7.2	14.8	14.8	25.3	17.9	28.3	31.3	38.5	44.5	
8000	.7									4.0	4.0	4.0	16.4	8.5	20.5	24.5	33.6	39.5	
10000												7.2			9.6	15.8	27.9	34.5	
12500														7.2			21.5	29.1	
16000																	10.2	20.7	
20000																		9.1	
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
T-38 AIRCRAFT IN THE																				
TEXAS ASE HUSH HOUSE																				
OPERATION:																				
AFTERBURNER POWER (100%)																				
SINGLE ENGINE																				
GROUND RUNUP IN THE																				
TEXAS ASE HUSH HOUSE																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
IDENTIFICATION:																				
OMESA 8.2																				
TEST BF-709-001																				
RUN 03																				
AIRCRAFT CODE 709																				
OPERATION CODE 00103																				
PROFILE VERSION A																				
20 NOV 81																				
PAGE F1																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	63.1	61.5	61.9	59.2	61.1	58.8	56.7	57.6	56.7	53.0	63.0	65.3	65.3	69.5	66.0	69.1	71.2	75.8	80.6)
250	61.0	59.4	59.8	57.0	58.9	56.7	54.6	55.5	54.6	50.9	60.9	63.2	63.2	67.5	63.9	67.1	69.1	73.7	78.5)
315	58.9	57.2	57.7	54.9	56.8	54.6	52.5	53.4	52.4	50.7	58.7	61.1	61.1	65.4	61.8	65.0	67.0	71.6	76.5)
400	56.8	55.1	55.5	52.7	54.6	52.5	50.4	51.3	50.3	50.6	58.6	59.0	59.0	63.2	59.6	62.8	64.8	69.6	74.4)
500	54.6	52.9	53.3	50.5	52.4	50.3	48.2	49.1	48.0	54.4	54.4	56.7	56.7	61.0	57.4	60.7	62.7	67.5	72.3)
630	52.3	50.6	51.0	48.2	50.1	48.0	45.9	46.8	45.7	52.1	52.1	54.5	54.5	58.7	55.1	58.4	60.5	65.3	70.1)
800	49.9	48.2	48.5	45.8	47.7	45.6	43.5	44.5	43.3	49.8	49.8	52.1	52.1	56.4	52.7	56.2	58.2	63.1	67.9)
1000	47.4	45.8	46.1	43.3	45.2	43.2	41.1	42.1	40.8	47.3	47.3	49.7	49.7	54.0	50.3	53.8	55.9	60.9	65.7)
1250	44.8	43.2	43.5	40.7	42.6	40.6	38.5	39.5	38.1	44.8	44.8	47.1	47.1	51.5	47.7	51.4	53.5	58.6	63.4)
1600	42.1	40.6	40.8	37.9	39.9	37.9	35.7	36.8	35.3	42.1	42.1	44.5	44.5	48.8	45.0	48.9	51.0	56.2	61.0)
2000	39.2	37.7	37.9	35.0	37.0	35.1	32.8	33.9	32.2	39.4	39.4	41.7	41.7	46.1	42.2	46.3	48.4	53.7	58.5)
2500	36.1	34.7	34.8	31.8	33.9	32.1	29.7	30.6	28.9	36.4	36.4	38.7	38.7	43.1	39.2	43.6	45.6	50.8	55.8)
3150	32.6	31.3	31.4	28.3	30.4	28.7	26.3	27.4	25.4	33.1	33.1	35.4	35.4	39.8	35.9	40.5	42.6	47.6	52.8)
4000	28.8	27.0	27.6	24.5	26.6	25.0	22.6	23.7	21.5	29.5	29.5	31.8	31.8	36.2	32.3	37.1	39.1	44.0	49.4)
5000	24.6	23.4	23.4	20.3	22.4	20.8	18.5	19.6	17.3	25.4	25.4	27.8	27.8	32.2	28.2	33.1	35.2	39.8	45.4)
6300	20.1	18.8	18.8	15.7	17.9	16.4	14.0	15.2	12.8	21.1	21.1	23.4	23.4	27.5	23.6	28.8	30.9	35.4	41.1)
8000	15.9	14.5	14.4	11.2	13.5	12.2	9.8	11.2	8.8	17.2	17.2	19.2	19.2	23.7	19.6	24.8	27.0	31.9	37.4)
10000	11.5	10.0	9.7	6.5	8.9	7.8	5.4	7.0	4.6	13.0	13.0	14.7	14.7	19.1	15.0	20.5	22.7	27.9	33.3)
12500	7.0	5.2	4.9	1.6	4.1	3.1	.8	2.7	.4	8.4	8.4	9.9	9.9	14.3	10.1	15.7	17.9	23.6	28.8)
16000	2.3	.3								3.6	3.6	4.6	4.6	9.0	4.9	10.5	12.7	18.8	23.7)
20000													3.5			4.8	7.0	13.5	18.1)
25000																.9	7.5	11.8)

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
T-38 AIRCRAFT IN THE										) OMEGA 8.2									
TEXAS ASE HUSH HOUSE										) TEST BF-709-001									
) OPERATION:										) RUN 03									
) AFTERBURNER POWER (100%)										) METEOROLOGY:									
) SINGLE ENGINE										) TEMP = 59 F									
) GROUND RUNUP IN THE										) BAR PRESS = 29.92 IN HG									
) TEXAS ASE HUSH HOUSE										) REL HUMID = 70 %									
										) DELTA N = 0.0 DB									
										) AIRCRAFT CODE 709									
										) OPERATION CODE 00103									
										) PROFILE VERSION A									
										) 20 NOV 81									
										) PAGE G1									
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	64.3	63.0	63.0	60.4	63.5	60.2	58.4	58.2	57.5	63.8	63.8	66.2	66.2	69.5	66.9	69.1	71.2	76.4	80.6
250	62.3	60.9	60.9	58.3	61.4	58.1	56.3	56.1	55.4	61.7	61.7	64.1	64.1	67.5	64.7	67.1	69.1	74.3	78.5
315	60.2	58.8	58.8	56.1	59.3	55.9	54.2	54.1	53.2	59.5	59.5	61.9	61.9	65.4	62.6	65.0	67.0	72.3	76.5
400	58.0	56.6	56.6	54.0	57.1	53.8	52.1	51.9	51.1	57.4	57.4	59.8	59.8	63.2	60.4	62.8	64.8	70.2	74.4
500	55.8	54.4	54.4	51.7	54.9	51.6	49.9	49.7	48.8	55.2	55.2	57.6	57.6	61.0	58.2	60.7	62.7	68.1	72.3
630	53.5	52.1	52.1	49.4	52.6	49.3	47.6	47.5	46.5	52.9	52.9	55.3	55.3	58.7	55.9	58.4	60.5	66.0	70.1
800	51.1	49.8	49.7	47.0	50.2	47.0	45.2	45.1	44.1	50.6	50.6	52.9	52.9	56.4	53.6	56.2	58.2	63.8	67.9
1000	48.7	47.3	47.2	44.5	47.7	44.5	42.8	42.7	41.6	48.1	48.1	50.5	50.5	54.0	51.1	53.8	55.9	61.6	65.7
1250	46.1	44.8	44.6	41.9	45.1	42.0	40.2	40.1	38.9	45.6	45.6	47.9	47.9	51.5	48.6	51.4	53.5	59.2	63.4
1500	43.3	42.1	41.9	39.1	42.3	39.3	37.4	37.4	36.1	42.9	42.9	45.3	45.3	48.8	45.9	48.9	51.0	56.8	61.0
2000	40.4	39.3	39.0	36.2	39.4	36.4	34.5	34.5	33.0	40.2	40.2	42.5	42.5	46.1	43.1	46.3	48.4	54.3	58.5
2500	37.3	36.2	35.9	33.0	36.3	33.4	31.4	31.4	29.7	37.2	37.2	39.5	39.5	43.1	40.0	43.6	45.6	51.5	55.8
3150	33.8	32.8	32.5	29.6	32.9	30.0	28.0	28.0	26.2	33.9	33.9	36.2	36.2	39.8	36.7	40.5	42.6	48.2	52.8
4000	29.8	28.8	28.5	25.5	28.6	26.0	23.9	24.2	22.2	30.1	30.1	32.4	32.4	36.2	32.9	37.1	39.1	44.5	49.4
5000	25.4	24.3	24.1	21.0	23.9	21.6	19.5	20.0	17.8	25.9	25.9	28.3	28.3	32.2	28.7	33.1	35.2	40.2	45.4
6300	20.6	19.4	19.3	16.2	18.9	16.9	14.7	15.5	13.1	21.4	21.4	23.7	23.7	27.8	24.1	28.8	30.9	35.7	41.1
8000	16.2	14.8	14.5	11.5	14.0	12.4	10.1	11.3	8.9	17.3	17.3	19.4	19.4	23.7	19.7	24.8	27.0	32.0	37.4
10000	11.5	10.0	9.7	6.5	8.9	7.8	5.4	7.0	4.0	13.0	13.0	14.7	14.7	19.1	15.0	20.5	22.7	27.9	33.3
12500	7.0	5.2	4.9	1.6	4.1	3.1	.8	2.7	.4	8.4	8.4	9.9	9.9	14.3	10.1	15.7	17.9	23.6	29.0
16000	2.3	.3								3.6	3.6	4.0	4.0	9.0	4.9	10.5	12.7	18.8	23.7
20000												3.5	3.5			4.8	7.0	13.5	18.1
25000																	.9	7.5	11.8

U PAGE JI

	P=NL	A=AL	T=ALT
0	.	.	.
10	.	.	.
20	.	.	.
30	.	.	.
40	.	.	.
50	.	.	.
60	.	.	.
70	.	.	.
80	.	.	.
90	.	.	.
100	.	.	.
110	.	.	.
120	.	.	.
130	.	.	.
140	.	.	.
150	.	.	.
160	.	.	.
170	.	.	.
180	.	.	.

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE (TF41-A-1 ENG.)

FOURING GROUND RUN-UP OPERATIONS

TEST BF-711-001
AIRCRAFT CODE: 711
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Page

Engine Runup, 85% RPM	177
Engine Runup, 95% RPM	183
Military Power, 99% RPM	189

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AMERICAN AIR FORCE
MILITARY BASE
WASHINGTON, D.C.

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 711																				
(TF41-A-1 ENGINE IN THE (65% RPM) TEMP = 59 F) OPERATION CODE 00118																				
(TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																				
((GROUND RUNUP IN THE (REL HUMID = 70 %) 20 NOV 81																				
((TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C3																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST BF-711-001																				
RUN 01																				
BAND CENTER																				
FREQ (HZ)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
50	66	66	65	64	65	66	67	70	69	65	64	65	66	68	68	68	68	68	68	
63	63	63	63	62	65	63	63	69	68	63	61	64	63	64	64	64	64	64	64	
80	64	64	61	62	61	59	56	64	65	65	65	64	62	61	61	61	61	61	61	
100	66	64	66	62	63	59	63	63	61	65	63	62	64	61	61	61	61	61	61	
125	65	62	61	64	61	57	62	60	63	65	62	64	61	61	61	61	61	61	61	
160	53	58	57	56	58	55	56	56	53	58	56	54	56	54	54	54	54	54	54	
200	54	53	54	51	49	48	47	47	47	54	48	50	51	51	51	51	51	51	51	
250	53	55	55	53	48	47	45	46	46	49	46	47	50	49	49	49	49	49	49	
315	51	51	51	50	45	42	43	44	44	42	40	43	45	42	42	42	42	42	42	
400	48	46	46	45	42	40	40	40	40	39	37	42	41	38	38	38	38	38	38	
500	50	48	48	48	44	45	43	44	41	36	35	40	40	37	37	37	37	37	37	
630	48	47	45	47	44	45	42	44	42	37	37	40	38	36	36	36	36	36	36	
800	46	45	44	45	43	43	43	42	40	38	37	40	38	36	36	36	36	36	36	
1000	46	45	44	45	43	42	41	41	39	36	36	44	38	36	36	36	36	36	36	
1250	51	51	47	47	47	46	44	44	40	40	37	41	39	37	37	37	37	37	37	
1600	52	53	49	50	49	47	46	43	42	40	36	40	33	37	37	37	37	37	37	
2000	48	49	47	47	46	44	42	41	40	38	36	41	38	37	37	37	37	37	37	
2500	51	50	48	49	50	49	47	45	45	45	39	45	41	38	38	38	38	38	38	
3150	43	42	40	41	41	40	38	39	41	40	33	38	36	37	37	37	37	37	37	
4000	38	37	36	36	35	33	33	35	39	35	30	34	32	33	33	33	33	33	33	
5000	47	48	46	44	42	38	41	40	44	40	32	33	33	33	33	33	33	33	33	
6300	45	47	45	43	42	38	39	40	43	39	30	31	31	32	32	32	32	32	32	
8000	45	46	42	41	41	37	42	42	45	39	29	30	32	30	30	30	30	30	30	
10000	43	44	39	38	38	36	43	37	42	35	27	27	29	27	27	27	27	27	27	
OVERALL	72	72	71	71	70	71	70	74	73	72	71	71	72	71	71	71	71	71	71	

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
TF41-A-1 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
85% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	77.7	77.4	75.7	75.9	75.0	73.0	72.7	73.1	73.0	72.4	70.4	71.4	71.3	69.0	69.0	69.0	69.0	69.0	69.0
250	75.4	75.1	73.4	73.6	72.6	71.5	70.3	70.7	70.7	69.9	68.0	69.1	68.9	66.5	66.5	66.5	66.5	66.5	66.5
315	73.0	72.7	71.0	71.2	70.2	69.1	67.9	68.3	68.2	67.5	65.5	66.8	66.4	64.2	64.2	64.2	64.2	64.2	64.2
400	70.5	70.2	68.5	68.7	67.7	66.6	65.3	65.8	65.6	65.0	62.9	64.2	63.9	61.5	61.5	61.5	61.5	61.5	61.5
500	68.0	67.6	65.9	66.1	65.1	64.0	62.6	63.2	62.9	62.3	60.2	61.6	61.2	58.8	58.8	58.8	58.8	58.8	58.8
630	65.3	64.8	63.2	63.4	62.3	61.2	59.7	60.3	60.0	59.4	57.1	58.7	58.0	55.6	55.6	55.6	55.6	55.6	55.6
800	62.3	61.9	60.2	60.4	59.3	58.2	56.5	57.2	56.0	55.3	53.0	55.7	54.8	52.1	52.1	52.1	52.1	52.1	52.1
1000	59.1	58.7	56.9	57.1	56.0	54.9	53.1	53.7	53.3	52.0	50.0	52.3	51.0	48.2	48.2	48.2	48.2	48.2	48.2
1250	55.6	55.3	53.4	53.7	52.5	51.3	49.4	49.9	49.3	48.0	45.4	48.5	46.7	43.5	43.5	43.5	43.5	43.5	43.5
1500	51.7	51.6	49.2	49.5	48.1	47.0	44.9	45.4	44.6	44.1	39.7	44.0	41.6	38.3	38.3	38.3	38.3	38.3	38.3
2000	46.9	47.0	44.1	44.5	43.0	41.4	39.1	39.6	39.2	38.0	33.2	38.5	35.5	30.5	30.5	30.5	30.5	30.5	30.5
2500	41.7	41.3	38.2	38.8	37.1	35.7	32.5	33.0	32.5	29.5	19.4	31.6	24.8	18.4	18.4	16.4	16.4	16.4	16.4
3150	35.3	34.5	30.7	31.0	29.0	26.6	25.0	23.1	20.1	17.0	9.0	19.4	11.6	2.2	2.2	2.2	2.2	2.2	2.2
4000	27.0	26.9	21.0	22.9	19.4	16.7	12.6	8.1	0.6	0.6	0.2	8.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5000	17.2	14.4	11.2	7.6	9.1	4.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6300	6.6	1.8	1.4																
8000																			
10000																			
12500																			
15000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
TF-1-A-1 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
85% RPM																			
SINGLE ENGINE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = 0.0 DB																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE																			
(FEET)																			
200	79.4	79.2	77.5	77.6	77.1	76.1	75.1	74.9	74.6	74.6	71.9	73.3	72.6	69.8	63.8	69.8	69.8	69.8	69.8
250	77.1	76.8	75.1	75.2	74.8	73.8	72.7	72.5	72.2	72.1	59.5	71.8	70.2	66.6	66.6	66.6	66.6	66.6	66.6
315	7.7	74.4	72.8	72.9	72.4	71.4	70.2	70.1	69.7	69.7	67.8	68.6	67.8	64.2	64.2	64.2	64.2	64.2	64.2
400	72.2	71.9	70.3	70.4	69.9	68.9	67.7	67.5	67.2	67.2	64.4	66.1	65.2	61.5	61.6	61.6	61.6	61.6	61.6
500	69.6	69.4	67.7	67.8	67.3	66.3	64.9	64.9	64.5	64.5	61.7	63.4	62.5	58.8	58.8	58.8	58.8	58.8	58.8
630	66.9	66.6	64.9	65.8	64.5	63.4	62.8	62.8	61.6	61.6	58.6	60.6	59.4	55.5	55.6	55.6	55.6	55.6	55.6
800	64.8	63.7	62.8	62.1	61.4	60.4	58.9	53.8	58.3	58.5	55.4	57.5	56.1	52.1	52.1	52.1	52.1	52.1	52.1
1000	60.8	60.5	58.6	58.8	58.1	57.2	55.5	55.5	54.9	55.0	51.5	54.1	52.4	48.2	48.2	48.2	48.2	48.2	48.2
1250	57.2	57.1	55.1	55.4	54.6	53.6	51.7	51.6	50.9	51.0	46.9	50.3	49.1	43.5	43.6	43.6	43.6	43.6	43.6
1600	53.4	53.4	51.8	51.2	50.3	49.3	47.3	47.2	46.2	46.2	41.2	45.9	42.9	38.3	38.3	38.3	38.3	38.3	38.3
2000	48.6	48.6	45.9	45.2	44.2	43.7	41.4	41.6	40.8	40.2	34.8	40.3	36.8	30.5	30.6	30.6	30.6	30.6	30.6
2500	43.4	43.1	40.8	40.5	39.3	38.8	34.8	34.8	32.8	31.7	28.9	33.4	26.2	16.4	16.4	16.4	16.4	16.4	16.4
3150	37.8	36.3	32.5	33.4	32.0	30.9	27.4	24.9	21.7	19.1	11.4	21.2	13.0	2.2	2.2	2.2	2.2	2.2	2.2
4000	29.1	28.4	22.4	24.2	21.2	18.5	14.5	9.5	9.0	10.3	1.5	18.0							
5000	19.2	15.4	12.2	8.6	10.4	6.2	1.0												
6300	7.2	2.5	2.1																
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:										(OPERATIONS)										METEOROLOGY:										RUN 01																																																																																																																																																																																																																																																																																																	
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE										85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE										TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB										AIRCRAFT CODE 711 OPERATION CODE 00116 PROFILE VERSION A 20 NOV 81 PAGE F3																																																																																																																																																																																																																																																																																																	
DISTANCE (FEET)										ANGLE (DEGREES)																																																																																																																																																																																																																																																																																																																					
200										300										400										500										600										700										800										900										1000										1100										1200										1300										1400										1500										1600										1700										1800																																																																																																																																																															
62.8										60.8										58.8										56.8										54.8										52.8										50.8										48.8										46.8										44.8										42.8										40.8										38.8										36.8										34.8										32.8										30.8										28.8										26.8										24.8										22.8										20.8										18.8										16.8										14.8										12.8										10.8										8.8										6.8										4.8										2.8										.8									
60.7										58.7										56.7										54.7										52.7										50.7										48.7										46.7										44.7										42.7										40.7										38.7										36.7										34.7										32.7										30.7										28.7										26.7										24.7										22.7										20.7										18.7										16.7										14.7										12.7										10.7										8.7										6.7										4.7										2.7										.7																			
58.6										56.6										54.6										52.6										50.6										48.6										46.6										44.6										42.6										40.6										38.6										36.6										34.6										32.6										30.6										28.6										26.6										24.6										22.6										20.6										18.6										16.6										14.6										12.6										10.6										8.6										6.6										4.6										2.6										.6																													
56.5										54.5										52.5										50.5										48.5										46.5										44.5										42.5										40.5										38.5										36.5										34.5										32.5										30.5										28.5										26.5										24.5										22.5										20.5										18.5										16.5										14.5										12.5										10.5										8.5										6.5										4.5										2.5										.5																																							
54.4										52.4										50.4										48.4										46.4										44.4										42.4										40.4										38.4										36.4										34.4										32.4										30.4										28.4										26.4										24.4										22.4										20.4										18.4										16.4										14.4										12.4										10.4										8.4										6.4										4.4										2.4										.4																																																	
52.3										50.3										48.3										46.3										44.3										42.3										40.3										38.3										36.3										34.3										32.3										30.3										28.3										26.3										24.3										22.3										20.3										18.3										16.3										14.3										12.3										10.3										8.3										6.3										4.3										2.3										.3																																																											
50.2										48.2										46.2										44.2										42.2										40.2										38.2										36.2										34.2										32.2										30.2										28.2										26.2										24.2										22.2										20.2										18.2										16.2										14.2										12.2										10.2										8.2										6.2										4.2										2.2										.2																																																																					
48.1										46.1										44.1										42.1										40.1										38.1										36.1										34.1										32.1										30.1										28.1										26.1										24.1										22.1										20.1										18.1										16.1										14.1										12.1										10.1										8.1										6.1										4.1										2.1										.1																																																																															
46.0										44.0										42.0										40.0										38.0										36.0										34.0										32.0										30.0										28.0										26.0										24.0										22.0										20.0										18.0										16.0										14.0										12.0										10.0										8.0										6.0										4.0										2.0										.0																																																																																									
43.9										41.9										39.9										37.9										35.9										33.9										31.9										29.9										27.9										25.9										23.9										21.9										19.9										17.9										15.9										13.9										11.9										9.9										7.9										5.9										3.9										1.9										.9																																																																																																			
41.8										39.8										37.8										35.8										33.8										31.8										29.8										27.8										25.8										23.8										21.8										19.8										17.8										15.8										13.8										11.8										9.8										7.8										5.8										3.8										1.8										.8																																																																																																													
39.7										37.7										35.7										33.7										31.7										29.7										27.7										25.7										23.7										21.7										19.7										17.7										15.7										13.7										11.7										9.7										7.7										5.7										3.7										1.7										.7																																																																																																																							
37.6										35.6										33.6										31.6										29.6										27.6										25.6										23.6										21.6										19.6										17.6										15.6										13.6										11.6										9.6										7.6										5.6										3.6										1.6										.6																																																																																																																																	
35.5										33.5										31.5										29.5										27.5										25.5										23.5										21.5										19.5										17.5										15.5										13.5										11.5										9.5										7.5										5.5										3.5										1.5										.5																																																																																																																																											
33.4										31.4										29.4										27.4										25.4										23.4										21.4										19.4										17.4										15.4										13.4										11.4										9.4										7.4										5.4										3.4										1.4										.4																																																																																																																																																					
31.3										29.3										27.3										25.3										23.3										21.3										19.3										17.3										15.3										13.3										11.3										9.3										7.3										5.3										3.3										1.3										.3																																																																																																																																																															
29.2										27.2										25.2										23.2										21.2										19.2										17.2										15.2										13.2										11.2										9.2										7.2										5.2										3.2										1.2										.2																																																																																																																																																																									
27.1										25.1										23.1										21.1										19.1										17.1										15.1										13.1										11.1										9.1										7.1										5.1										3.1										1.1										.1																																																																																																																																																																																			
25.0										23.0										21.0										19.0										17.0										15.0										13.0										11.0										9.0										7.0										5.0										3.0										1.0										.0																																																																																																																																																																																													
22.9										20.9										18.9										16.9										14.9										12.9										10.9										8.9										6.9										4.9										2.9										.9																																																																																																																																																																																																																	
20.8										18.8										16.8										14.8										12.8										10.8										8.8										6.8										4.8										2.8										.8																																																																																																																																																																																																																											
18.7										16.7										14.7										12.7										10.7										8.7										6.7										4.7										2.7										.7																																																																																																																																																																																																																																					
16.6										14.6										12.6										10.6										8.6										6.6										4.6										2.6										.6																																																																																																																																																																																																																																															
14.5										12.5										10.5										8.5										6.5										4.5										2.5										.5																																																																																																																																																																																																																																																									
12.4										10.4										8.4										6.4										4.4										2.4										.4																																																																																																																																																																																																																																																																			
10.3										8.3										6.3										4.3										2.3										.3																																																																																																																																																																																																																																																																													
8.2										6.2										4.2										2.2										.2																																																																																																																																																																																																																																																																																							
6.1										4.1										2.1										.1																																																																																																																																																																																																																																																																																																	
4.0										2.0										.0																																																																																																																																																																																																																																																																																																											
1.9										.9																																																																																																																																																																																																																																																																																																																					
.8																																																																																																																																																																																																																																																																																																																															
.7																																																																																																																																																																																																																																																																																																																															
.6																																																																																																																																																																																																																																																																																																																															
.5																																																																																																																																																																																																																																																																																																																															
.4																																																																																																																																																																																																																																																																																																																															
.3																																																																																																																																																																																																																																																																																																																															
.2																																																																																																																																																																																																																																																																																																																															
.1																																																																																																																																																																																																																																																																																																																															
.0																																																																																																																																																																																																																																																																																																																															

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:											IDENTIFICATIONS:									
TF41-A-1 ENGINE IN THE) OMEGA 8.2									
TEXAS ASE HUSH HOUSE) TEST 9F-711-001									
(OPERATIONS:) RUN 01									
(85% RPM) AIRCRAFT CODE 711									
(SINGLE ENGINE) OPERATION CODE 00119									
(GROUND RUNUP IN THE) PROFILE VERSION A									
(TEXAS ASE HUSH HOUSE) 20 NOV 81									
) DELTA N = 0.0 DB) PAGE G3									
METEOROLOGY:																				
) TEMP = 59 F																				
) BAR PRESS = 29.92 IN HG																				
) REL HUMID = 70 %																				
) ANGLE (DEGREES)																				
DISTANCE																				
(FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	64.5	64.6	62.6	62.7	61.9	60.9	59.7	59.6	59.0	59.3	56.6	58.3	57.3	54.1	54.1	54.1	54.1	54.1	54.1	
250	62.4	62.4	60.4	60.5	59.7	58.7	57.4	57.4	56.7	57.1	54.6	56.2	55.2	52.0	52.0	52.0	52.0	52.0	52.0	
315	60.2	60.2	58.2	58.3	57.5	56.6	55.2	55.2	54.4	55.0	52.5	54.1	53.2	49.9	49.9	49.9	49.9	49.9	49.9	
400	57.9	57.9	56.0	56.1	55.3	54.4	52.9	53.0	52.0	52.8	50.4	51.9	51.0	47.8	47.8	47.8	47.8	47.8	47.8	
500	55.6	55.6	53.7	53.8	53.0	52.1	50.5	50.8	49.0	50.5	48.2	49.7	48.8	45.5	45.5	45.5	45.5	45.5	45.5	
630	53.3	53.1	51.3	51.5	50.6	49.7	48.1	48.4	47.2	48.1	45.9	47.4	46.5	43.2	43.2	43.2	43.2	43.2	43.2	
800	50.8	50.6	48.8	49.0	48.1	47.3	45.6	46.0	44.0	45.5	43.4	44.9	44.0	40.7	40.7	40.7	40.7	40.7	40.7	
1000	48.2	48.0	46.2	46.4	45.5	44.7	43.0	43.5	42.0	42.8	40.7	42.4	41.3	38.1	38.1	38.1	38.1	38.1	38.1	
1250	45.5	45.3	43.4	43.7	42.7	42.0	40.3	40.8	39.2	39.9	37.7	39.6	38.4	35.2	35.2	35.2	35.2	35.2	35.2	
1500	42.7	42.4	40.5	40.8	39.8	39.1	37.4	37.9	36.1	35.0	34.5	36.0	35.3	32.2	32.2	32.2	32.2	32.2	32.2	
2000	39.7	39.4	37.4	37.7	36.7	36.0	34.4	34.7	32.9	33.2	31.1	33.4	32.0	28.8	28.8	28.8	28.8	28.8	28.8	
2500	36.4	36.1	34.1	34.4	33.3	32.8	31.1	31.3	29.4	29.4	27.3	30.0	28.3	25.1	25.1	25.1	25.1	25.1	25.1	
3150	32.9	32.5	30.4	30.9	29.7	29.2	27.5	27.7	25.0	25.2	23.1	26.3	24.3	21.1	21.1	21.1	21.1	21.1	21.1	
4000	28.7	28.2	26.1	26.6	25.4	24.9	23.2	23.3	21.2	20.3	18.3	21.9	19.7	16.7	16.7	16.7	16.7	16.7	16.7	
5000	24.1	23.6	21.5	22.0	20.7	20.2	18.2	18.7	16.2	15.3	13.6	17.4	15.0	12.3	12.3	12.3	12.3	12.3	12.3	
6300	19.2	18.8	16.6	17.1	15.6	15.2	13.5	13.9	11.6	10.2	8.8	12.6	10.2	7.7	7.7	7.7	7.7	7.7	7.7	
8000	14.6	13.8	12.0	12.6	10.8	10.5	8.8	9.7	7.2	6.2	5.1	8.3	6.4	4.2	4.2	4.2	4.2	4.2	4.2	
10000	9.8	8.8	7.3	7.8	5.7	5.7	3.9	5.5	3.4	2.2	1.4	3.8	2.5	.8	.8	.8	.8	.8	.8	
12500	5.2	4.0	2.9	3.4	1.1	1.3		1.7												
16000	.6																			
20000																				
25000																				

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: (OPERATIONS:) METEOROLOGY:) AIRCRAFT CODE 711
 TF41-A-1 ENGINE IN THE (85% RPM) TEMP = 59 F) OPERATION CODE 00110
 TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A
 (GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 61
 (TEXAS AS- HUSH HOUSE) DELTA N = 0.0 DB) PAGE J3
 P=PNLT A=AL T=ALT

	-20	-10	0	10	20	30	40	50	60	70	80
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		IDENTIFICATION:	
1/3 OCTAVE BAND																		) OMEGA 8.2	
DISTANCE = 250 FEET																		) TEST 8F-711-001	
																		) RUN 02	
NOISE SOURCE/SUBJECT:																		) METEOROLOGY:	
(TF41-A-1 ENGINE IN THE																		) TEMP = 59 F	
(TEXAS ASE HUSH HOUSE																		) BAR PRESS = 29.92 IN HG	
(																		) REL HUMID = 70 %	
(																		) 20 NOV 81	
(TEXAS ASE HUSH HOUSE																		) DELTA N = 0.0 DB	
(																		) PAGE C2	
BAND CENTER																			
FREQ (HZ)																		ANGLE (DEGREES)	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50		70	69	71	70	72	71	73	70	73	72	73	76	80	82	84	86	83	84
63		64	64	64	66	67	66	65	69	70	71	73	77	73	76	78	80	78	78
80		67	63	62	64	63	62	63	62	57	69	68	67	71	70	71	73	75	71
100		70	66	66	68	68	63	61	66	64	66	68	67	67	68	69	70	67	65
125		68	64	64	65	62	62	59	63	60	63	66	64	65	65	66	67	67	63
160		63	62	61	62	60	58	60	58	56	59	62	61	63	65	64	63	64	62
200		58	57	58	57	58	54	56	54	53	55	59	59	62	63	62	61	61	57
250		54	57	53	57	58	52	60	52	52	53	56	56	52	63	64	64	61	58
315		57	56	54	53	58	48	61	51	45	48	52	51	53	56	57	56	58	55
400		58	55	55	53	58	50	59	50	43	46	48	49	52	55	58	57	53	56
500		65	62	62	61	62	59	64	57	52	48	47	49	52	56	59	58	53	55
630		62	59	59	59	60	60	61	55	53	51	48	50	51	55	59	58	54	55
800		59	56	55	56	60	56	60	54	51	52	50	50	51	53	56	57	53	53
1000		58	56	55	56	58	56	59	52	48	51	52	53	51	53	56	57	52	53
1250		61	60	58	58	59	57	60	54	50	51	50	53	52	55	59	58	53	51
1600		62	60	59	59	59	57	59	52	51	50	50	52	53	54	55	54	50	51
2000		56	57	55	55	54	52	62	49	48	48	48	52	51	52	52	54	50	52
2500		49	52	51	52	59	49	66	45	45	46	46	51	47	49	51	51	49	48
3150		51	50	48	49	55	47	60	49	52	45	47	47	46	49	51	51	49	50
4000		46	45	43	43	47	40	50	42	48	46	45	42	43	46	49	48	47	48
5000		49	49	48	47	46	41	46	42	49	46	44	42	43	45	47	48	47	44
6300		51	50	49	47	46	43	45	43	48	46	42	47	41	44	46	45	44	42
8000		50	48	45	45	44	41	45	43	47	44	41	40	41	44	47	45	44	41
10000		48	46	42	41	46	39	44	39	45	41	40	37	37	40	43	42	39	37
OVERALL		77	74	75	75	76	74	77	78	79	77	77	81	82	84	86	87	85	86

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(TF41-A-1 ENGINE IN THE )										) TEMPERATURE = 59 F									
(TEXAS ASE HUSH HOUSE )										) BAR PRESS = 29.92 IN HG									
(GROUND RUNUP IN THE )										) REL HUMIDITY = 70 %									
(TEXAS ASE HUSH HOUSE )										) DELTA N = 0.0 DB									
										ANGLE (DEGREES)									
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.7	63.9	69.0	68.0	70.7	67.6	74.0	65.0	63.8	53.6	63.3	64.0	65.6	65.5	67.2	69.3	69.2	65.8	66.0
250	69.6	67.8	66.9	66.7	68.6	65.5	71.9	62.9	61.6	61.4	61.2	62.4	63.5	63.5	65.1	67.2	67.1	63.7	63.9
315	67.5	65.7	64.7	64.6	66.5	63.4	69.7	60.6	59.3	59.2	59.0	60.2	61.4	61.4	63.0	65.1	65.0	61.6	61.8
400	65.3	63.5	62.6	62.4	64.3	61.2	67.4	58.6	57.1	57.0	56.8	57.9	59.3	59.2	60.9	63.0	62.9	59.4	59.6
500	63.1	61.3	60.4	60.2	62.1	59.1	65.2	56.4	54.7	54.7	54.6	55.6	57.0	57.0	58.7	60.8	60.7	57.2	57.4
530	60.8	59.0	58.1	58.0	59.8	56.8	62.8	54.1	52.3	52.3	52.2	53.2	54.7	54.7	56.4	58.5	58.5	54.9	55.2
600	58.5	56.7	55.8	55.6	57.4	54.5	60.4	51.6	49.8	49.9	49.6	50.8	52.3	52.2	54.0	56.2	56.2	52.6	52.9
1000	56.2	54.3	53.4	53.2	55.0	52.2	57.8	49.4	47.3	47.4	47.3	48.2	49.8	49.7	51.6	53.8	53.8	50.2	50.6
1250	53.7	51.8	50.9	50.7	52.5	49.6	55.1	46.9	44.7	44.7	44.6	45.6	47.1	47.0	49.0	51.3	51.3	47.7	48.1
1800	51.2	49.2	48.3	48.1	49.9	47.2	52.4	44.4	41.9	41.9	41.7	42.7	44.2	44.2	46.3	48.7	48.7	45.8	46.5
2000	48.5	46.5	45.6	45.4	47.2	44.0	49.4	41.6	39.0	38.9	38.7	39.7	41.1	41.1	43.3	45.9	45.0	42.0	42.5
2500	45.7	43.6	42.7	42.5	44.3	41.8	46.3	38.7	35.9	35.8	35.4	36.5	37.6	37.8	40.1	42.8	42.7	38.8	39.4
3150	42.5	40.3	39.4	39.2	41.1	38.7	42.8	35.5	32.6	32.5	31.9	33.0	34.2	34.1	36.7	39.5	39.3	35.4	35.9
4000	38.9	36.7	35.8	35.6	37.5	35.2	39.1	32.0	28.9	28.8	28.1	29.2	30.4	30.1	32.8	35.7	35.6	31.5	32.0
5000	34.8	32.6	31.7	31.5	33.5	31.2	34.8	27.9	24.8	24.8	24.1	25.2	26.2	25.9	28.7	31.6	31.5	27.4	27.8
6300	30.4	28.1	27.2	27.0	29.1	26.8	30.3	23.6	20.4	20.4	19.7	20.7	21.8	21.4	24.2	27.2	27.1	23.8	24.3
8000	26.4	24.0	23.2	23.1	25.1	22.8	26.2	19.6	16.5	16.3	15.6	16.4	17.6	17.4	20.3	23.3	23.2	19.2	19.7
10000	22.2	19.7	19.0	18.7	20.7	18.5	21.8	15.4	12.3	12.3	11.3	11.9	13.3	13.4	16.2	19.2	19.1	15.3	15.9
12500	17.6	15.0	14.4	14.1	16.0	13.8	17.1	10.5	7.9	7.4	6.8	7.2	9.0	9.4	12.8	14.9	15.0	11.3	12.1
16000	12.7	10.0	9.5	9.1	10.9	8.7	12.0	6.1	3.4	2.7	2.5	2.6	5.0	5.3	7.9	10.6	10.9	7.5	8.4
20000	7.4	4.5	4.2	3.7	5.3	3.1	6.5	1.1			1.3	1.3			4.0	6.5	7.1	4.8	5.0
25000	1.6					.5									.5	2.7	3.6	.8	1.9

TABLE 8. NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

TF41-A-1 ENGINE IN THE

TEXAS ASE HUSH HOUSE

OPERATIONS:

MI.LITARY POWER (95%)

SINGLE ENGINE

GROUND RUNUP IN THE

TEXAS ASE HUSH HOUSE

1) METEOROLUGY:

TEMP = 59 F

BAR PRESS = 21.92 IN HG

REL HUMID = 70 %

A Z = 0.0 DB

) IDENTIFICATIONS:

1) OMEGA 8.2

TEST BF-711-001

) RUN 02

) AIRCRAFT CODE 711

) OPERATION CODE 00105

) PROFILE VERSION A

20 NOV 81

) PAGE J2

$$P = P_{NL} T$$

A = 2L

$$T = ALT$$
[illegible]

AD-A122 844

FAR-FIELD ACOUSTIC DATA FOR THE TEXAS A&E INC
HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL
RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82
AFAMRL-TR-81-148 F/G 6/6

3/3

UNCLASSIFIED

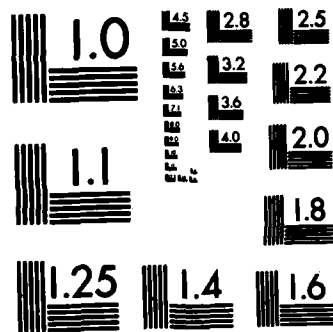
F/G 6/6

NL

END

FILMED

978C



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 711																			
(TF41-A-1 ENGINE IN THE (MAX MIL PWR (99%)) TEMP = 59 F) OPERATION CODE 00104																			
(TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	73	69	74	73	75	75	78	77	77	76	77	80	83	85	87	87	85	88	
63	68	66	66	66	68	69	72	72	72	75	76	79	78	75	79	82	80	82	
80	68	64	65	65	64	65	68	70	71	72	70	75	75	74	72	74	73	74	
100	71	67	66	67	65	64	66	65	68	70	70	71	71	70	67	68	67	65	
125	70	66	65	65	62	63	62	64	63	65	67	66	69	69	65	66	64	60	
160	65	63	61	62	57	60	59	58	60	62	63	65	67	66	61	55	61	59	
200	60	57	59	58	54	55	53	53	56	58	61	63	67	66	60	53	60	59	
250	61	58	61	58	54	52	54	52	55	55	58	63	64	67	65	55	57	58	
315	62	60	60	57	53	50	49	48	50	49	54	56	57	59	58	55	54	55	
400	68	65	63	65	61	58	57	55	43	52	49	53	52	54	59	57	55	53	
500	70	66	65	67	64	65	61	62	55	54	51	52	54	59	57	55	54	53	
630	70	65	64	65	65	67	61	62	58	57	53	52	54	58	58	56	55	54	
800	66	61	60	62	62	64	60	59	56	57	55	54	53	60	57	52	55	53	
1000	64	62	59	60	61	55	57	51	54	52	54	54	54	58	58	51	55	53	
1250	68	67	63	63	64	62	59	54	55	53	56	56	55	61	62	49	56	53	
1600	67	67	63	64	64	61	58	57	55	55	51	57	54	60	59	49	52	51	
2000	60	62	59	60	58	55	54	53	51	50	54	53	52	57	53	47	51	51	
2500	52	54	54	56	56	51	48	46	48	49	51	53	48	53	51	47	49	49	
3150	48	49	47	48	47	45	45	46	51	49	45	49	48	52	50	64	49	49	
4000	49	50	47	48	47	44	45	47	52	49	44	47	46	47	49	55	47	47	
5000	50	52	49	49	47	42	42	44	50	48	44	45	45	46	48	49	51	47	
6300	49	51	48	47	46	42	44	44	49	46	41	43	43	46	48	47	45	44	
8000	50	52	46	47	46	42	45	44	50	45	40	41	41	42	46	47	45	44	
10000	47	48	42	43	47	40	41	41	46	42	41	38	38	44	44	43	40	40	
OVERALL	80	77	77	78	77	76	77	80	73	80	80	81	84	85	86	88	89	87	89

TABLE: PERCEIVED NOISE LEVEL (PNDR)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(TF41-A-1 ENGINE IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
(TEXAS ASE HUSH HOUSE)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.9	87.8	85.3	86.0	85.2	83.5	81.4	81.6	81.3	80.8	79.9	81.5	84.0	84.3	87.8	87.7	87.7	85.2	87.1
250	86.7	85.6	83.1	83.7	82.9	81.3	79.1	79.3	78.9	78.5	77.5	79.0	81.5	82.3	84.5	85.1	85.3	82.6	84.5
315	84.4	83.3	80.8	81.5	80.6	79.0	76.8	77.0	76.5	76.2	75.0	76.6	79.1	79.8	82.8	82.5	82.9	80.8	81.8
400	82.1	81.8	78.5	79.1	78.3	76.7	74.5	74.6	73.9	73.8	72.6	74.2	76.5	77.2	79.4	79.9	80.4	77.4	79.1
500	79.7	78.6	76.1	76.7	75.9	74.4	72.0	72.2	71.3	71.3	70.0	71.8	74.8	74.5	76.7	77.2	77.8	74.7	76.4
630	77.3	76.1	73.6	74.2	73.4	71.9	69.5	69.7	68.5	68.7	67.4	69.2	71.3	71.8	74.8	74.4	75.1	71.9	73.6
800	74.7	73.4	71.8	71.6	70.4	69.4	66.8	67.0	65.7	65.8	64.5	66.5	68.5	69.0	71.2	71.6	72.2	69.1	70.8
1000	72.8	70.7	68.2	68.9	68.0	66.7	64.0	64.2	62.8	63.1	61.4	63.8	65.6	66.0	68.3	68.7	69.1	66.2	67.8
1250	69.1	67.7	65.2	65.9	65.0	63.9	60.9	61.2	59.5	59.9	58.0	60.4	62.5	62.9	65.3	65.6	65.7	63.8	64.6
1600	65.9	64.6	62.1	62.7	61.9	60.9	57.6	58.0	55.9	56.3	54.0	56.6	59.1	59.4	62.0	62.2	61.9	59.5	61.2
2000	62.6	61.2	58.6	59.3	58.5	57.8	54.0	54.6	51.6	52.1	49.7	52.5	55.1	54.8	58.3	57.9	57.5	55.8	56.7
2500	59.8	57.3	54.8	55.7	54.6	54.2	49.8	50.6	47.2	47.5	44.9	47.5	50.3	49.1	54.1	53.0	52.3	49.5	51.6
3150	55.8	53.1	50.3	51.4	49.9	50.1	44.7	45.7	41.3	41.9	39.4	41.9	44.7	43.5	48.9	47.7	46.8	42.5	44.5
4000	50.4	48.3	45.1	46.3	45.8	45.7	40.8	40.6	36.1	35.8	32.2	34.4	37.2	35.9	42.3	42.8	37.9	35.9	36.5
5000	45.4	42.5	39.0	41.0	39.9	40.6	34.4	35.2	29.4	29.1	24.8	26.2	28.7	26.3	35.5	35.5	26.6	26.9	25.8
6300	39.7	36.8	33.6	35.1	34.0	34.4	27.3	28.7	19.9	20.8	12.8	14.2	16.6	16.8	28.3	27.9	13.9	18.0	12.6
8000	34.6	30.3	28.0	29.6	27.7	29.4	18.3	20.8	9.8	10.5	.8	2.3	4.6	5.7	19.0	18.0	1.2	9.1	
10000	28.6	22.1	17.7	20.7	18.1	21.3	9.9	12.0	.1						9.7	8.2		.3	
12500	28.2	12.4	9.8	12.8	9.2	12.5	1.5	3.9							.4				
16000	18.5	2.8	.3	4.0	.3	3.6													
20000	.8																		
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																											
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																											
NOISE SOURCE/SUBJECT:													METEOROLOGY:										IDENTIFICATION:				
TF-41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE													TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB										OMEGA 8.2 TEST BF-711-001 RUN 03 AIRCRAFT CODE 711 OPERATION CODE 00104 PROFILE VERSION A 20 NOV 81 PAGE E1				
DISTANCE (FEET)													ANGLE (DEGREES)														
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180									
200	88.9	67.8	85.3	86.0	85.2	83.5	81.4	81.6	81.3	60.0	79.9	81.5	84.0	84.3	87.7	89.0	91.9	85.2	87.1								
250	86.7	65.6	83.1	83.7	82.9	81.3	79.1	79.3	78.9	76.5	77.5	79.0	81.5	82.3	85.2	86.4	89.5	82.6	84.5								
315	84.4	63.3	80.8	81.5	80.6	79.0	76.8	77.0	76.5	76.2	75.0	76.6	79.1	79.5	82.7	83.8	87.1	80.0	81.8								
400	82.1	61.0	78.5	79.1	78.3	76.7	74.5	74.6	73.9	73.8	72.6	74.2	76.5	77.2	80.1	81.2	84.6	77.4	79.1								
500	79.7	58.6	76.1	76.7	75.9	74.4	72.0	72.2	71.3	71.3	70.0	71.8	74.0	74.5	77.4	78.5	82.0	74.7	76.4								
630	77.3	56.1	73.6	74.2	73.4	71.9	69.5	69.7	68.5	66.7	67.4	69.2	71.3	71.8	74.7	75.8	79.3	71.9	73.6								
900	74.7	53.4	71.0	71.6	70.8	69.4	66.8	67.0	65.7	65.0	64.5	66.5	68.5	69.0	71.9	72.9	76.4	69.1	70.8								
1000	72.0	50.7	68.2	68.9	68.0	66.7	64.0	64.2	62.8	63.1	61.4	63.6	65.6	66.0	69.1	70.0	73.3	66.2	67.8								
1250	69.1	47.7	65.2	65.9	65.0	63.9	61.2	61.4	60.0	59.5	58.0	60.4	62.5	62.9	66.1	66.9	69.9	63.0	64.6								
1600	65.9	44.6	62.1	62.7	61.9	60.9	58.0	58.2	56.5	56.3	54.0	56.5	59.1	59.4	62.7	63.6	66.1	59.5	61.2								
2000	62.6	41.2	58.6	59.3	58.5	57.6	54.0	54.2	52.1	52.1	49.7	52.5	55.1	54.8	59.0	59.2	61.7	55.0	56.7								
2500	59.0	37.3	54.8	55.7	54.6	54.2	49.8	50.6	47.2	47.5	44.9	47.5	50.3	49.1	54.8	54.3	56.6	49.5	51.6								
3150	55.0	33.1	50.3	51.4	49.9	50.1	44.7	45.7	41.3	41.9	39.4	41.9	44.7	43.5	49.6	49.0	50.2	42.5	44.5								
4000	50.4	28.3	45.1	46.3	45.0	45.7	40.0	40.6	36.1	36.0	32.2	34.4	37.2	35.9	42.8	43.1	41.2	35.3	38.5								
5000	45.4	22.5	39.8	41.0	39.9	40.6	34.3	35.2	29.4	29.1	24.8	26.2	29.7	28.3	36.0	36.3	29.2	26.9	29.8								
6300	39.7	16.0	33.6	35.1	34.0	34.4	27.3	28.7	19.8	20.8	12.6	14.2	16.6	16.0	24.6	24.4	15.6	14.0	12.6								
8000	34.6	10.3	28.0	29.6	27.7	29.4	18.3	20.0	9.8	10.5	.8	2.3	4.6	5.7	19.2	18.3	2.1	9.1									
10000	28.6	22.1	17.7	20.7	18.1	21.3	9.9	12.0		.1					9.7	8.2		.3									
12500	20.2	12.4	9.8	12.8	9.2	12.5	1.5	3.9							.4												
16000	10.5	2.8	.3	4.8	.3	3.6																					
20000	.8																										
25000																											

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS:																			
(TF41-A-1 ENGINE IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
(OPERATION:)																			
(MAX MIL PW (99%))																			
(SINGLE ENGINE)																			
(GROUND RUNUP IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS =29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST BF-711-001																			
) RUN 03																			
) AIRCRAFT CODE 711																			
) OPERATION CODE 00104																			
) PROFILE VERSION A																			
) 20 NOV 81																			
) PAGE F1																			
ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	77.4	75.6	73.1	73.9	73.5	73.0	69.2	69.4	66.0	66.8	65.0	66.7	68.4	68.1	71.4	70.6	70.2	67.2	67.0
250	75.3	73.5	71.0	71.8	71.4	70.9	67.1	67.3	64.0	64.7	62.9	64.6	66.3	66.1	69.3	68.5	68.0	65.1	64.9
315	73.2	71.3	68.9	69.7	69.2	68.8	65.0	65.2	62.4	62.5	60.8	62.4	64.2	64.0	67.2	66.4	65.8	62.9	62.8
408	71.1	69.2	66.7	67.6	67.1	66.7	62.8	63.0	60.1	60.4	58.6	60.3	62.0	61.8	65.1	64.2	63.5	60.8	60.7
508	68.9	67.0	64.5	65.4	64.9	64.5	60.7	60.9	57.9	58.1	56.4	58.0	59.8	59.6	62.9	62.0	61.1	58.6	58.5
630	66.7	64.7	62.3	63.2	62.7	62.3	58.4	58.7	55.5	55.9	54.2	55.7	57.5	57.3	60.6	59.8	58.6	56.4	56.3
800	64.5	62.4	60.0	60.9	60.4	60.1	56.2	56.4	53.1	53.5	51.8	53.3	55.1	54.3	58.2	57.5	56.1	54.1	54.1
1000	62.2	60.0	57.7	58.6	58.0	57.0	53.8	54.1	50.7	51.1	49.4	50.8	52.6	52.4	55.8	55.1	53.4	51.8	51.8
1250	59.8	57.6	55.2	56.1	55.6	55.4	51.4	51.7	48.1	48.5	46.8	48.2	50.0	49.8	53.2	52.6	50.7	49.3	49.4
1608	57.3	55.0	52.7	53.6	53.1	53.0	48.9	49.2	45.5	45.9	44.0	45.4	47.1	47.0	50.5	50.0	47.7	46.7	46.8
2000	54.7	52.3	50.1	51.0	50.4	50.4	46.3	46.6	42.7	43.1	41.1	42.4	44.0	43.9	47.7	47.1	44.4	43.7	43.8
2500	51.9	49.4	47.2	48.1	47.5	47.7	43.5	43.8	39.8	40.1	38.0	39.2	40.7	40.5	44.5	44.1	40.8	40.6	40.5
3150	48.7	46.1	44.0	44.9	44.4	44.7	40.3	40.7	36.6	36.9	34.6	35.7	37.1	36.9	41.2	40.7	36.9	37.1	36.8
4000	45.2	42.5	40.3	41.3	40.9	41.2	36.8	37.2	33.1	33.4	31.0	32.0	33.2	33.0	37.5	37.0	32.6	33.4	32.9
5000	41.1	38.3	36.2	37.2	36.8	37.3	32.8	33.2	29.0	29.4	27.0	27.9	29.0	28.8	33.4	33.0	28.1	29.3	28.5
6300	36.7	33.9	31.8	32.8	32.5	33.0	28.5	28.9	24.7	25.0	22.6	23.4	24.5	24.3	29.0	28.6	23.5	24.9	24.0
8000	32.7	29.6	27.8	28.8	28.3	29.1	24.5	25.0	20.7	21.0	18.6	19.2	20.3	20.5	24.9	24.4	20.2	21.1	20.5
10000	28.4	25.1	23.5	24.5	23.9	24.8	20.2	20.7	16.5	16.7	14.4	14.7	16.0	16.5	20.5	20.0	16.8	17.1	17.0
12500	23.8	20.2	18.9	19.9	19.0	20.1	15.5	16.1	11.9	12.1	10.0	10.2	11.7	12.5	15.9	15.5	13.5	13.1	13.7
16000	18.7	15.0	13.9	14.9	13.8	15.0	10.4	11.1	7.1	7.3	5.6	5.7	7.7	8.9	11.3	11.2	10.3	9.3	10.5
20800	13.1	9.4	8.5	9.4	8.0	9.3	4.8	5.8	2.2	2.5	1.4	1.7	4.2	5.4	6.9	7.4	7.3	5.9	7.6
25000	7.0	3.3	2.5	3.4	1.8	3.0	.3	.3					1.0	2.3	3.0	4.1	4.5	2.9	4.9

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(TF-41-A-1 ENGINE IN THE)										(TEMP = 59 F)									
(TEXAS ASE HUSH HOUSE)										(BAR PRESS =29.92 IN HG)									
()										(REL HUMID = 70 %)									
(TEXAS ASE HUSH HOUSE)										(DELTA N = 0.0 DB)									
DISTANCE										ANGLE (DEGREES)									
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	75.6	73.1	73.9	73.5	73.0	59.2	59.4	66.8	65.8	55.0	66.7	68.4	68.1	72.1	71.9	74.5	67.2	67.0
250	75.3	73.5	71.0	71.8	71.4	70.9	57.1	67.3	64.6	64.7	62.9	64.6	68.3	66.1	70.0	69.8	72.3	65.1	64.9
315	73.2	71.3	68.9	69.7	69.2	68.8	65.0	65.2	62.4	62.5	60.8	62.4	64.2	64.0	67.9	67.7	70.0	62.9	62.8
400	71.1	69.2	66.7	67.6	67.1	66.7	62.8	63.0	60.1	60.4	58.6	60.3	62.0	61.8	65.8	65.6	67.7	60.8	60.7
500	68.9	67.0	64.5	65.4	64.9	64.5	60.7	60.9	57.9	58.1	56.4	58.0	59.6	59.6	63.6	63.4	65.3	58.6	58.5
630	66.7	64.7	62.3	63.2	62.7	62.3	58.4	58.7	55.5	55.9	54.2	55.7	57.5	57.3	61.3	61.1	62.9	56.4	56.3
800	64.5	62.4	60.0	60.9	60.4	60.1	56.2	56.4	53.1	53.5	51.8	53.3	55.1	54.3	58.3	58.6	60.3	54.1	54.1
1000	62.2	60.0	57.7	58.6	58.0	57.8	53.8	54.1	50.7	51.1	49.4	50.8	52.6	52.4	56.5	56.4	57.7	51.8	51.8
1250	59.8	57.6	55.2	56.1	55.6	55.4	51.4	51.7	48.1	48.5	46.8	48.2	50.0	49.3	53.9	53.9	54.9	49.3	49.4
1500	57.3	55.0	52.7	53.6	53.1	53.0	49.9	49.2	45.5	45.9	44.0	45.4	47.1	47.0	51.2	51.3	51.9	46.7	46.8
2000	54.7	52.3	50.1	51.0	50.4	50.4	46.3	46.6	42.7	43.1	41.1	42.4	44.0	43.9	48.4	48.5	48.6	43.7	43.8
2500	51.9	49.4	47.2	48.1	47.5	47.7	43.5	43.8	39.8	40.1	38.0	39.2	40.7	40.5	45.3	45.4	45.0	40.6	40.5
3150	48.7	46.1	44.0	44.9	44.4	44.7	40.3	40.7	36.6	36.9	34.6	35.7	37.1	36.9	41.9	42.0	41.1	37.1	36.8
4000	45.2	42.5	40.3	41.3	40.9	41.2	36.8	37.2	33.1	33.4	31.0	32.0	33.2	33.0	38.1	38.1	36.0	33.4	32.9
5000	41.1	38.3	36.2	37.2	36.8	37.3	32.8	33.2	29.0	29.4	27.0	27.9	29.0	28.9	33.9	33.8	30.6	29.3	28.5
6300	36.7	33.9	31.8	32.8	32.5	33.0	28.5	28.9	24.7	25.0	22.6	23.4	24.5	24.3	29.1	29.1	25.2	24.9	24.0
8000	32.7	29.6	27.8	28.6	28.3	29.1	24.5	25.0	20.7	21.0	18.6	19.2	20.3	20.5	25.0	24.7	21.0	21.1	20.5
10000	28.4	25.1	23.5	24.5	23.9	24.8	20.2	20.7	16.9	16.7	14.4	14.7	16.0	16.2	20.5	20.0	16.8	17.1	17.0
12500	23.6	20.2	18.9	19.9	19.0	20.1	15.5	16.1	11.9	12.1	10.0	10.2	11.7	12.6	15.9	15.5	13.5	13.1	13.7
16000	18.7	15.0	13.9	14.9	13.8	15.0	10.4	11.1	7.1	7.3	5.6	5.7	7.7	8.9	11.3	11.2	10.3	9.3	10.5
20000	13.1	9.4	8.5	9.4	8.0	9.3	4.0	5.6	2.2	2.2	1.4	1.7	4.2	5.4	6.9	7.4	7.3	5.9	7.6
25000	7.6	3.3	2.5	3.4	1.8	3.0							1.0	2.3	3.0	4.1	4.5	2.9	4.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE

OPERATION:

MAX MIL PMK (99%)

SINGLE ENGINE

GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEORLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST BF-711-001

RUN 03

AIRCRAFT CODE 711

OPERATION CODE 00104

PROFILE VERSION A

20 NOV 81

PAGE J1

	P=PNLT											T=ALT											
	A=AL																						
	0	10	20	30	40	50	60	70	80	90	100		0	10	20	30	40	50	60	70	80	90	100
0																							
10																							
20																							
30																							
40																							
50																							
60																							
70																							
80																							
90																							
100																							
110																							
120																							
130																							
140																							
150																							
160																							
170																							
180																							

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 J79-GE-15 ENGINE IN THE
 TEXAS ASE HUSH HOUSE
 OPERATION:
 85% RPM
 SINGLE ENGINE
 GROUND RUNUP IN THE
 TEXAS ASE HUSH HOUSE
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST BF-712-001
 RUN 01
 AIRCRAFT CODE 712
 OPERATION CODE 00110
 PROFILE VERSION A
 20 NOV 61
 PAGE J2

	P=PNLT											T=ALT										
	A=AL																					
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

NOISE LEVEL IN PNDB OR DBA

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
J79-GE-15 ENGINE IN THE										) OMEGA 8.2									
TEXAS ASE HUSH HOUSE										) TEST 9F-712-001									
OPERATIONS:										) RUN 02									
MILITARY POWER(100%)										) AIRCRAFT CODE 712									
SINGLE ENGINE										) OPERATION CODE 00104									
GROUND RUNUP IN THE										) PROFILE VERSION A									
TEXAS ASE HUSH HOUSE										) 20 NOV 81									
DELTA N = 0.0 DB										) PAGE E1									
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.9	79.4	77.5	77.2	77.3	76.7	74.2	75.8	72.8	79.2	80.7	82.3	85.3	85.8	86.1	87.7	87.7	87.7	87.7
250	78.5	77.1	75.1	75.0	75.0	74.5	72.2	73.5	70.4	76.9	78.4	80.0	83.0	83.5	83.6	85.2	85.2	85.2	85.2
315	76.0	74.8	72.8	72.6	72.6	72.1	69.9	71.2	68.0	74.5	76.0	77.6	80.6	81.2	81.3	82.7	82.7	82.7	82.7
400	73.4	72.3	70.4	70.3	70.2	69.7	67.5	68.9	65.5	72.2	73.5	75.2	78.2	78.8	78.9	80.1	80.1	80.1	80.1
500	70.7	69.8	67.9	67.8	67.8	67.3	64.9	66.4	62.9	69.7	71.0	72.7	75.7	76.3	76.4	77.4	77.4	77.4	77.4
630	67.8	67.2	65.3	65.1	65.1	64.6	62.3	63.7	60.1	67.1	68.4	70.1	73.1	73.5	73.7	74.7	74.7	74.7	74.7
800	64.7	64.3	62.5	62.4	62.3	61.8	59.5	61.0	57.1	64.4	65.7	67.4	70.4	70.9	70.9	71.8	71.8	71.8	71.8
1000	61.7	61.4	59.4	59.4	59.3	59.0	56.5	58.1	53.8	61.5	62.8	64.4	67.5	67.8	68.0	69.0	69.0	69.0	69.0
1250	58.4	58.2	56.1	56.3	56.1	56.0	53.2	54.9	50.0	58.3	59.6	61.2	64.3	64.5	64.9	66.0	66.0	66.0	66.0
1500	54.6	54.8	52.7	52.8	52.2	52.4	49.3	51.6	45.6	54.3	55.9	57.5	60.9	61.1	61.5	62.6	62.6	62.6	62.6
2000	50.8	51.2	48.7	48.5	48.1	48.7	45.0	47.2	40.2	51.0	52.0	53.3	56.9	57.1	57.6	58.8	58.8	58.8	58.8
2500	46.5	46.8	44.3	44.3	43.2	44.4	41.0	43.0	35.2	45.4	47.5	48.4	52.4	52.5	53.2	54.5	54.5	54.5	54.5
3150	41.2	41.8	39.5	39.4	38.1	40.2	36.9	38.6	29.8	40.9	42.3	42.3	45.9	46.9	47.8	49.1	49.1	49.1	49.1
4000	35.9	36.6	33.3	34.4	32.5	34.5	31.8	32.7	22.2	33.7	36.2	35.6	40.3	40.0	40.9	42.8	42.8	42.8	42.8
5000	29.0	29.9	25.4	26.3	24.0	28.5	25.1	24.3	10.8	29.2	27.4	27.4	33.7	31.5	33.9	35.9	35.9	35.9	35.9
6300	19.3	19.7	14.5	15.3	12.9	18.3	13.8	14.2		20.1	19.1	19.1	25.2	21.4	24.4	28.0	28.0	28.0	28.0
8000	11.8	9.5	3.7	4.4	1.8	8.8	2.4	4.2		12.3	9.3	4.0	14.4	11.2	10.6	16.5	16.5	16.5	16.5
10000	4.3									4.4			3.5	1.1		5.0	5.0	5.0	5.0
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) IDENTIFICATION:)																			
J73-GE-15 ENGINE IN THE (MILITARY POWER(100%)) TEMP = 59 F) OMEGA 8.2																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS =29.92 IN HG) TEST 8F-712-001																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) RUN 02																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) AIRCRAFT CODE 712																			
) PROFILE VERSION A																			
) 20 NOV 81																			
) PAGE F1																			
DISTANCE																			
ANGLE (DEGREES)																			
((FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(200	57.2	65.6	63.3	64.1	63.4	64.1	62.2	61.6	58.8	56.1	57.0	56.6	70.6	70.1	70.4	71.3	71.3	71.3	71.3
(250	64.9	63.5	61.1	62.0	61.2	62.0	60.1	59.5	58.7	53.9	54.9	64.5	68.5	68.0	68.3	69.2	69.2	69.2	69.2
(315	62.7	61.4	59.8	59.1	59.9	58.0	57.4	57.4	54.5	51.8	52.8	62.3	65.3	65.8	66.2	67.0	67.0	67.0	67.0
(400	60.3	59.2	56.8	57.7	56.9	57.7	55.9	55.3	52.3	59.6	60.6	60.1	64.1	63.7	64.0	64.9	64.9	64.9	64.9
(500	58.0	56.9	54.6	55.5	54.7	55.6	53.7	53.1	50.0	57.4	58.4	57.9	61.8	61.4	61.7	62.6	62.6	62.6	62.6
(630	55.6	54.7	52.4	53.2	52.5	53.3	51.5	50.9	47.7	55.2	56.1	55.6	59.5	59.0	59.4	60.3	60.3	60.3	60.3
(800	53.2	52.3	50.1	50.9	50.1	51.1	49.2	48.6	45.3	52.8	53.8	53.1	57.0	56.5	57.0	57.9	57.9	57.9	57.9
(1000	50.7	50.0	47.7	48.6	47.8	48.8	46.9	46.3	42.9	50.5	51.3	50.7	54.5	53.9	54.5	55.5	55.5	55.5	55.5
(1250	48.1	47.5	45.2	46.1	45.3	46.4	44.5	43.9	40.4	48.0	48.8	48.0	51.9	51.2	51.8	52.9	52.9	52.9	52.9
(1500	45.5	45.0	42.6	43.6	42.7	43.9	42.0	41.5	37.8	45.4	46.0	45.3	49.1	48.3	49.0	50.2	50.2	50.2	50.2
(2000	42.8	42.3	40.0	41.0	40.0	41.3	39.4	38.9	35.0	42.6	43.2	42.3	46.2	45.2	46.1	47.3	47.3	47.3	47.3
(2500	39.9	39.5	37.1	38.1	37.2	38.5	36.7	36.2	32.1	39.8	40.2	39.2	43.0	41.9	42.9	44.2	44.2	44.2	44.2
(3150	36.8	36.4	33.9	35.0	34.1	35.5	33.6	33.0	29.0	36.7	36.9	35.9	39.7	38.3	39.4	40.6	40.8	40.8	40.8
(4000	33.3	32.9	30.4	31.5	30.6	32.1	30.2	29.5	25.5	33.3	33.4	32.2	35.9	34.4	35.7	37.2	37.2	37.2	37.2
(5000	29.3	28.9	26.3	27.5	26.6	28.1	26.4	25.5	21.5	29.4	29.5	28.2	31.8	30.2	31.6	33.1	33.1	33.1	33.1
(6300	25.0	24.6	22.0	23.2	22.3	23.8	22.1	21.3	17.2	25.1	25.2	23.8	27.4	25.7	27.1	28.7	28.7	28.7	28.7
(8000	21.0	20.6	18.0	19.2	18.2	19.9	18.1	17.4	13.1	21.1	21.2	19.7	23.3	21.5	23.0	24.5	24.5	24.5	24.5
(10000	16.7	16.2	13.6	14.8	13.8	15.7	13.7	13.2	8.8	16.7	16.8	15.3	18.9	17.2	18.5	20.0	20.0	20.0	20.0
(12500	12.0	11.5	9.9	10.0	9.0	11.0	8.8	8.7	4.1	12.0	12.1	10.6	14.3	12.8	13.9	15.3	15.3	15.3	15.3
(15000	6.8	6.3	3.8	4.8	3.7	5.8	3.5	3.7		6.7	7.1	5.8	9.5	8.5	9.4	10.6	10.6	10.6	10.6
(20000	1.1	.6				.1				1.3	2.0	1.1	4.6	4.3	5.0	6.3	6.3	6.3	6.3
(25000											.1	.1	.1	.4	1.1	2.5	2.5	2.5	2.5

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE (F100-PW-100)

DURING GROUND RUN-UP OPERATIONS

TEST BF-714-001
AIRCRAFT CODE: 714
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Page

Engine Runup, 80% RPM	269
Engine Runup, 92% RPM	270
Military Power, 92% RPM	215
Maximum Power, 92% RPM	216
Afterburner Power, 92% RPM	271

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NORMALIZED SPL AT 250 FEET

E LEVELS AS A FUNCTION OF PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

**TONE-CORRECTED, PERCEIVED NOISE
A-WEIGHTED OVERALL SOUND LEVEL**

A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AMERICAN MEDICAL ASSOCIATION
RESEARCH LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 714																			
F100-PW-100 ENGINE IN THE (80% RPM)) TEMP = 59 F) OPERATION CODE 00119																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	62	59	63	59	60	59	63	61	60	59	60	63	61	69	69	70	65	65	
63	61	61	62	60	61	59	60	60	60	58	60	62	60	69	67	67	65	66	
80	59	58	61	59	59	58	61	59	58	58	60	59	59	65	65	63	62	63	
100	63	62	63	62	61	60	62	61	60	58	59	61	59	74	74	71	70	69	
125	64	63	62	61	62	62	62	60	59	58	61	62	59	70	70	68	67	67	
160	65	64	60	58	59	60	57	58	55	53	55	57	55	62	60	59	60	63	
200	60	62	61	58	59	58	52	52	51	48	51	52	54	56	52	55	53	58	
250	65	61	64	58	57	60	50	54	50	47	50	54	54	55	53	53	52	60	
315	61	58	54	53	48	50	45	47	43	43	48	49	51	54	49	52	53	53	
400	56	54	52	49	42	46	41	41	39	42	44	46	50	50	49	51	52	50	
500	52	47	50	46	42	43	40	37	37	42	44	45	44	49	48	50	52	50	
630	51	48	46	45	43	44	42	38	39	42	44	45	44	51	48	49	49	49	
800	50	49	45	42	42	44	42	40	43	43	46	45	44	52	48	47	47	47	
1000	46	45	45	42	42	44	41	39	44	40	46	44	43	51	47	47	47	47	
1250	47	46	46	44	44	45	43	41	40	38	43	43	41	50	45	45	45	45	
1600	48	48	47	46	46	46	43	40	41	36	41	43	42	43	43	44	45	46	
2000	47	48	48	47	47	45	42	40	40	40	42	43	43	47	43	44	47	51	
2500	48	49	48	47	45	44	43	41	46	42	44	45	44	48	44	45	47	50	
3150	53	54	52	52	47	47	45	46	45	45	48	45	47	52	47	50	52	56	
4000	49	51	47	47	43	43	41	42	45	40	43	41	43	48	43	46	50	51	
5000	54	59	54	54	52	51	53	56	56	44	56	44	45	47	42	44	46	48	
6300	49	48	45	44	41	42	41	43	43	36	45	38	40	45	40	43	45	50	
8000	50	51	47	46	42	42	41	42	43	47	37	38	39	45	38	42	44	48	
10000	51	52	47	46	45	44	44	47	47	43	36	39	36	43	37	40	43	48	
OVERALL	73	72	72	69	69	69	68	70	65	68	66	69	68	77	77	76	74	74	

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				IDENTIFICATION:	
1/3 OCTAVE BAND) OMEGA 8.2	
DISTANCE = 250 FEET) TEST BF-714-001	
) RUN 02	
) AIRCRAFT CODE 714	
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:)) OPERATION CODE 00104	
F100-PW-100 ENGINE IN THE (MILITARY POWER)) TEMP = 59 F	
TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG	
) REL HUMID = 70 %	
(GROUND RUNUP IN THE)) 20 NOV 81	
(TEXAS ASE HUSH HOUSE)) DELTA N = 0.0 DB	
) PAGE C2	
BAND CENTER																				ANGLE (DEGREES)	
FREQ (HZ)																					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
50	68	66	69	69	71	74	72	75	75	76	75	77	79	79	84	86	87	88	88		
63	68	65	69	68	70	71	70	73	74	74	73	73	78	74	74	78	81	83	81		
80	68	65	69	68	68	69	69	71	73	73	71	73	74	72	72	75	72	74	79		
100	68	65	67	67	67	67	67	69	72	72	69	72	74	71	70	72	70	71	76		
125	68	64	66	66	65	65	65	67	70	70	67	71	72	70	70	69	68	69	74		
160	68	64	65	65	64	63	64	65	69	69	65	70	71	70	70	66	66	67	72		
200	68	63	64	64	62	61	62	63	67	67	63	69	69	70	69	64	65	64	69		
250	68	63	63	63	61	59	60	61	66	66	61	67	67	66	66	61	63	62	67		
315	68	63	62	63	59	57	58	59	55	65	59	64	64	63	62	58	61	60	65		
400	69	62	61	62	58	55	57	57	63	63	57	62	61	59	59	55	59	58	63		
500	71	68	66	66	62	65	65	64	62	62	59	60	59	60	59	56	59	58	61		
630	71	66	65	66	63	66	64	61	61	61	60	60	58	59	59	56	59	58	60		
800	68	61	61	60	61	62	63	58	59	59	60	60	58	60	59	57	59	57	58		
1000	65	60	61	60	60	61	62	59	59	58	60	59	58	59	59	59	59	57	58		
1250	67	60	61	61	59	61	62	60	56	56	61	58	58	60	62	60	59	57	56		
1600	66	61	60	59	59	63	59	56	55	55	60	57	58	62	61	58	55	56	56		
2000	60	57	59	53	53	54	53	50	54	54	57	57	56	61	55	52	55	55	56		
2500	59	55	57	47	47	46	47	44	53	53	51	51	56	55	49	46	55	53	56		
3150	58	54	56	41	41	42	41	36	52	52	45	45	50	49	43	40	55	52	62		
4000	57	52	54	35	35	36	35	32	51	51	39	39	44	43	37	34	55	51	59		
5000	56	51	52	29	29	30	29	26	50	50	33	33	38	37	31	28	55	50	57		
6300	54	50	51	23	23	24	23	20	49	49	27	27	32	31	25	22	55	49	55		
8000	53	48	49	17	17	18	17	14	49	48	21	21	26	25	19	16	55	47	54		
10000	53	47	47	11	11	12	11	8	47	47	15	15	20	19	13	10	55	46	53		
OVERALL	81	76	77	77	77	79	78	80	81	81	80	82	84	82	85	87	88	89	90		

XXX = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 714
 F100-PM-100 ENGINE IN THE (MILITARY POWER) TEMP = 59 F) OPERATION CODE 00104
 TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A
 (GROUND RUNUP IN THE (REL HUMID = 70 %) 20 NOV 81
 (TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE J2

	P=PNLT										A=AL										T=ALT													
	0	10	20	30	40	50	60	70	80	90	100	0	10	20	30	40	50	60	70	80	90	100	0	10	20	30	40	50	60	70	80	90	100	
A
N
G
L
E
I
N
D
E
G
R
E
E
S
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 714																			
F100-PW-100 ENGINE IN THE (AFTERBURNER POWER)) TEMP = 59 F) OPERATION CODE 00103																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C1																			
IDENTIFICATION:)																			
OMEGA 0.2																			
TEST BF-714-001																			
RUN 03																			
BAND CENTER																			
FREQ (HZ)																			
50	61	80	82	83	85	87	89	89	86	86	93	95	96	98	100	101	100	103	103
63	78	77	77	80	78	81	80	85	84	86	84	89	90	92	92	96	99	98	99
80	76	72	74	74	74	74	73	78	81	83	84	87	88	86	83	86	91	91	91
100	80	75	74	73	70	72	71	73	75	81	80	83	83	84	81	81	81	84	80
125	75	71	71	71	67	70	70	70	72	77	75	78	78	77	77	76	77	77	75
160	74	70	69	69	65	67	68	67	63	73	73	75	76	76	75	74	73	73	73
200	72	68	68	68	62	64	66	63	60	72	72	76	75	75	74	71	72	72	70
250	70	67	66	66	60	60	65	60	52	66	71	75	77	76	77	74	73	69	68
315	69	65	64	64	57	57	63	57	53	62	66	69	69	69	71	68	68	66	66
400	67	64	63	62	55	54	62	54	55	59	61	66	66	67	66	65	63	63	63
500	73	70	67	70	63	64	60	62	60	59	60	62	64	66	65	65	61	63	62
630	71	68	66	68	63	60	61	61	62	58	50	61	64	69	66	66	63	65	62
800	69	67	64	64	64	64	62	62	62	61	62	65	64	72	70	69	63	65	61
1000	69	66	63	65	63	63	59	60	50	54	61	64	67	71	70	69	66	64	61
1250	74	71	68	69	66	66	64	63	61	62	63	66	63	70	70	73	69	65	62
1600	74	70	69	66	66	66	64	61	63	61	61	66	67	71	71	74	66	62	59
2000	67	65	65	63	61	60	59	57	53	50	59	65	66	70	67	70	62	59	57
2500	59	57	59	58	57	54	57	56	56	56	57	62	65	63	63	65	59	57	56
3150	58	57	58	57	55	53	55	54	55	55	51	61	60	59	60	63	58	56	59
4000	57	57	55	56	54	52	54	53	53	55	45	57	54	58	57	59	56	54	57
5000	58	56	55	55	53	51	52	52	57	54	39	59	48	46	55	58	54	53	55
6300	59	56	53	54	51	49	50	50	55	54	33	55	42	54	54	56	53	52	53
8000	59	56	52	53	50	43	48	49	55	54	27	51	36	53	54	56	51	51	52
10000	58	54	51	49	48	47	46	48	54	51	21	47	30	49	50	54	49	49	51
OVERALL	87	85	85	86	87	89	87	91	91	91	91	95	97	96	99	102	103	103	105

XXX = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																																							
NOISE SOURCE/SUBJECT: (F100-PM-100 ENGINE IN THE) (TEXAS ASE HUSH HOUSE)										OPERATION: (AFTERBURNER POWER) (SINGLE ENGINE) (GROUND RUNUP IN THE) (TEXAS ASE HUSH HOUSE)										METEOROLOGY: (TEMP = 59 F) (BAR PRESS =29.92 IN HG) (REL HUMID = 70 %) (DELTA N = 0.0 DB)										IDENTIFICATION: (UMEGA 8.2) (TEST BF-714-001) (RUN 03) (AIRCRAFT CODE 714) (OPERATION CODE 00103) (PROFILE VERSION A) (20 NOV 81) (PAGE G1)									
DISTANCE																				ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180																				
200	83.9	80.7	78.7	79.7	76.6	77.0	75.3	74.9	74.0	74.3	74.9	80.0	81.4	82.3	82.3	83.8	81.2	79.7	79.9																				
250	81.8	78.5	76.6	77.6	74.4	74.9	73.2	72.8	71.9	72.2	72.9	77.9	79.3	80.7	80.3	81.7	79.1	77.7	77.8																				
315	79.6	76.4	74.4	75.5	72.3	72.7	71.1	70.6	69.7	70.1	70.6	75.8	77.2	78.5	78.2	79.5	77.0	75.7	75.8																				
400	77.5	74.2	72.3	73.3	70.1	70.6	68.9	68.5	67.5	67.9	68.7	73.6	75.1	76.5	76.0	77.4	75.0	73.6	73.7																				
500	75.3	72.0	70.0	71.1	67.9	68.4	66.7	66.3	65.2	65.7	66.5	71.4	72.9	74.3	73.8	75.2	72.9	71.5	71.7																				
630	73.0	69.8	67.8	68.9	65.6	66.1	64.4	64.0	62.9	63.4	64.2	69.1	70.6	72.0	71.6	73.0	70.7	69.4	69.6																				
800	70.7	67.4	65.4	66.6	63.3	63.8	62.0	61.7	60.6	61.0	61.9	66.7	68.3	69.7	69.2	70.6	68.5	67.2	67.5																				
1000	68.3	65.0	63.0	64.2	60.9	61.5	59.0	59.4	58.1	58.5	59.5	64.2	65.8	67.3	66.8	68.3	66.3	65.0	65.3																				
1250	65.8	62.6	60.4	61.7	58.4	59.0	57.0	56.9	55.5	55.9	56.8	61.2	63.2	64.8	64.3	65.8	63.9	62.7	63.1																				
1600	63.2	60.0	57.8	59.1	55.8	56.4	54.3	54.3	52.8	52.9	53.9	58.6	60.4	62.1	61.6	63.1	61.1	59.9	60.4																				
2000	60.5	57.2	55.0	56.4	53.0	53.7	51.5	51.4	49.9	49.8	50.9	55.5	57.3	59.2	58.7	60.1	57.9	56.7	57.2																				
2500	57.5	54.3	52.0	53.5	50.0	50.7	48.4	48.3	46.7	46.4	47.5	52.1	54.0	55.1	55.5	56.9	54.4	53.2	53.5																				
3150	54.3	51.1	48.7	50.3	46.8	47.6	45.0	45.0	43.3	42.8	43.9	48.4	50.5	52.7	52.1	53.3	50.6	49.3	49.5																				
4000	50.4	47.2	44.8	46.4	43.0	43.7	41.1	41.0	39.5	38.8	40.0	44.3	46.5	49.0	48.3	49.3	46.3	45.1	45.0																				
5000	46.1	43.0	40.5	41.9	38.7	39.4	36.8	36.6	35.5	34.7	35.9	39.8	42.2	44.9	44.0	45.0	41.8	40.7	40.3																				
6300	41.4	38.3	35.8	37.2	34.1	34.8	32.1	31.9	31.1	30.2	31.4	35.1	37.5	40.4	39.5	40.3	37.1	36.2	35.6																				
8000	36.8	33.8	31.2	32.7	29.5	30.3	27.6	27.5	27.0	25.3	27.5	30.9	33.2	36.1	35.2	35.9	33.6	33.0	32.9																				
10000	31.9	28.9	26.4	28.0	24.5	25.5	22.7	23.0	22.9	22.3	23.4	26.8	28.8	31.5	30.7	31.4	30.2	29.9	30.3																				
12500	27.0	24.0	21.5	23.3	19.5	20.7	18.0	18.7	18.6	18.4	19.4	22.6	24.5	27.1	26.3	27.3	27.2	26.9	27.8																				
15000	21.7	18.7	16.4	18.3	14.3	15.8	13.2	14.5	14.4	14.6	15.5	18.8	20.5	22.5	22.2	23.7	24.4	24.1	25.3																				
20000	16.1	13.2	11.1	12.9	9.2	10.8	8.6	10.7	10.6	11.3	11.9	15.4	16.9	18.2	18.5	20.6	21.8	21.4	22.9																				
25000	10.3	7.3	5.8	7.5	4.5	6.3	4.5	7.4	7.2	6.2	8.7	12.3	13.7	14.3	15.4	17.8	19.3	18.8	20.4																				

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.008

IDENTIFICATION:

OMEGA 8.2

TEST BF-714-001

RUN 03

AIRCRAFT CODE 714

OPERATION CODE 00103

PROFILE VERSION A

20 NOV 81

PAGE J1

P=PNLT

A=AL

T=ALT

	10	20	30	40	50	60	70	80	90	100	110
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

ANGLE IN PND3 OR DCA

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE (J75-P-19 ENG.)

DURING GROUND RUN-UP OPERATIONS

TEST 3F-716-001
AIRCRAFT CODE: 716
PROFILE VERSION: A
COMPUTER PROGRAM: OMEGA 8.2

Power Setting

Page

Engine Runup, 91% RPM	228
Military Power, 103% RPM	234
Afterburner Power, 103% RPM	240

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AERO SPACE MATTERSON AIR FORCE LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 716																				
J75-P-19 ENGINE IN THE (91 % RPM)) TEMP = 59 F) OPERATION CODE 00117																				
TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																				
(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81																				
(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE C3																				
BAND CENTER																				
FREQ (HZ)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
50	65	60	66	63	65	69	66	67	66	68	67	68	70	73	72	73	78	75	79	
63	63	58	60	60	61	61	61	63	62	64	65	67	69	68	64	68	70	71	72	
80	61	61	60	58	60	58	61	59	62	63	63	63	65	65	61	63	65	65	65	
100	62	59	58	57	59	57	60	56	58	61	61	62	62	62	60	59	58	60	59	
125	59	58	55	55	56	54	55	54	52	57	56	59	59	59	55	55	58	55	55	
160	56	53	52	51	51	50	50	49	48	52	53	54	55	57	53	51	53	52	51	
200	50	47	48	48	46	48	46	45	43	46	49	50	52	55	52	47	50	51	50	
250	49	49	49	47	45	43	45	43	41	44	47	48	47	49	47	46	46	47	51	
315	46	44	45	44	40	41	38	38	38	43	41	45	42	46	41	44	43	46	48	
400	47	43	43	41	38	40	38	37	38	43	40	41	41	45	39	43	40	45	48	
500	50	46	46	45	43	43	43	43	41	42	40	42	42	43	39	43	41	47	48	
630	48	45	44	43	44	44	42	41	41	42	41	43	42	43	40	44	42	47	49	
800	45	43	41	42	40	42	42	40	40	42	41	44	43	43	40	42	42	46	48	
1000	49	43	41	42	41	42	41	40	39	40	40	42	42	42	40	43	42	45	46	
1250	52	46	43	43	44	44	42	43	40	40	40	42	41	42	41	44	43	44	45	
1600	55	49	48	48	48	47	45	42	43	42	40	42	42	44	43	42	40	44	44	
2000	58	59	55	58	60	55	51	49	48	46	44	45	44	44	41	43	42	46	44	
2500	51	51	49	51	53	48	44	43	42	44	42	43	43	41	37	40	39	44	42	
3150	39	36	36	36	36	37	35	36	39	39	38	39	39	39	36	38	37	44	40	
4000	48	40	39	40	38	36	37	41	44	40	38	39	37	39	36	38	37	44	40	
5000	46	42	39	40	40	37	38	39	44	41	37	38	38	42	36	38	37	41	39	
6300	47	40	42	42	41	40	41	38	44	41	36	36	36	39	33	36	35	37	37	
8000	45	44	41	41	42	38	40	39	42	39	38	36	35	37	33	35	34	36	36	
10000	43	41	40	38	47	38	38	38	39	41	45	38	34	35	35	39	33	33	34	
OVERALL	70	68	69	68	69	70	69	70	69	71	71	72	74	75	73	75	79	77	80	

TAB_E: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
J75-P-19 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATIONS:																			
(91 % RPM																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST BF-716-001																			
RUN 01																			
AIRCRAFT CODE 716																			
OPERATION CODE 00117																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE E3																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	81.4	81.9	78.3	80.1	81.5	77.8	75.6	74.5	74.5	72.0	70.9	71.8	71.9	74.2	69.9	71.8	74.3	74.5	76.3
250	79.1	79.6	76.0	77.8	79.2	75.5	73.3	72.2	72.1	69.7	68.5	69.4	69.5	71.7	67.4	69.2	71.7	71.9	73.7
315	76.6	77.2	73.6	75.5	76.8	73.2	70.9	69.8	69.6	67.2	66.0	67.1	67.1	69.1	64.8	66.6	69.1	69.4	71.2
400	74.3	74.8	71.2	73.0	74.3	70.7	68.3	67.2	67.0	64.7	63.4	64.6	64.6	66.6	62.1	64.0	66.3	66.8	68.5
500	71.8	72.3	68.6	70.5	71.8	68.1	65.7	64.5	64.4	62.0	60.7	62.0	61.9	64.0	59.2	61.1	63.5	64.0	65.8
630	69.1	69.6	65.8	67.7	69.0	65.3	62.9	61.7	61.5	59.2	57.8	59.0	59.0	61.2	56.1	58.1	60.5	61.1	62.9
800	66.3	66.7	62.9	64.9	66.2	62.5	59.9	58.7	58.5	56.0	54.5	55.9	55.9	58.1	52.7	54.8	57.4	58.1	59.8
1000	63.2	63.7	59.8	61.9	63.1	59.4	56.7	55.4	55.1	52.6	50.9	52.5	52.4	54.7	49.2	51.3	54.1	54.9	56.7
1250	60.0	60.5	56.5	58.5	59.9	56.1	53.3	51.9	51.4	48.8	46.9	48.6	48.5	50.8	45.2	47.4	50.4	51.1	53.2
1500	56.4	56.9	52.7	54.8	56.1	52.3	49.1	47.5	46.6	44.3	42.4	44.4	44.1	46.5	40.6	43.2	46.1	46.9	49.2
2000	52.2	52.7	47.9	50.6	51.9	47.4	43.2	41.4	41.0	38.3	36.5	38.9	38.7	41.5	34.2	37.6	40.1	42.3	43.7
2500	47.4	47.8	42.5	45.5	47.2	42.5	37.6	35.3	34.3	31.3	28.2	31.1	30.2	34.1	25.1	29.3	31.2	35.5	36.8
3150	41.4	42.6	36.3	39.9	41.8	36.5	32.0	29.2	26.4	22.6	16.4	22.9	19.8	24.3	11.4	20.9	20.3	27.9	30.0
4000	35.0	35.4	29.0	32.5	34.4	28.4	22.7	17.5	15.5	9.3	4.7	7.3	3.5	14.3	4.0	12.4	9.4	16.7	20.1
5000	26.6	26.3	18.0	23.9	26.6	18.1	11.4	5.7	4.6									5.6	7.5
6300	13.0	15.0	7.0	12.0	15.3	7.7	.1												
8000	3.6			.1	3.9														
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE																		
IDENTIFICATION: OMEGA 8.2																		
TEST BF-716-001																		
RUN 01																		
METEOROLOGY: TEMPERATURE = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = 0.0 DB																		
AIRCRAFT CODE 716																		
OPERATION CODE 00117																		
PROFILE VERSION A																		
20 NOV 61																		
PAGE F3																		
ANGLE (DEGREES)																		
DISTANCE (FEET)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.4	64.5	61.2	63.0	64.6	60.9	58.4	57.0	27.4	26.9	56.0	27.0	50.8	58.0	54.9	56.5	56.8	59.0
250	63.2	62.3	59.0	60.8	62.4	58.8	56.2	54.9	55.2	54.7	53.8	54.8	54.7	55.8	52.8	54.3	54.7	56.9
315	61.0	60.1	56.8	58.6	60.2	56.6	54.0	52.6	52.8	52.5	51.5	52.7	52.6	53.7	50.7	52.2	52.6	54.7
400	58.7	57.8	54.5	56.4	57.9	54.3	51.7	50.4	50.5	50.2	49.2	50.5	50.4	51.5	48.5	50.0	50.4	52.5
500	56.4	55.5	52.2	54.0	55.5	52.0	49.4	48.0	47.8	46.9	46.2	48.2	49.2	49.2	46.3	47.7	48.2	50.3
530	54.0	53.1	49.8	51.6	53.1	49.6	47.0	45.6	45.5	45.4	44.5	45.9	45.9	46.3	43.9	45.4	46.0	48.0
800	51.5	50.0	47.3	49.1	50.6	47.1	44.5	43.2	42.9	43.0	42.0	43.5	43.5	44.5	41.5	43.1	43.7	45.6
1000	48.9	47.9	44.7	46.5	48.0	44.5	41.9	40.6	40.2	40.4	39.5	40.9	41.0	42.0	39.0	40.7	41.4	43.2
1250	46.2	45.2	41.9	43.7	45.2	41.8	39.2	37.9	37.3	37.6	36.7	38.2	38.3	39.3	36.4	38.1	38.9	40.7
1600	43.3	42.2	39.0	40.7	42.2	38.9	36.3	35.0	34.3	34.7	33.8	35.4	35.4	36.4	33.6	35.4	36.2	37.9
2000	40.3	39.0	35.9	37.6	39.0	35.6	33.2	31.9	31.1	31.6	30.6	32.3	32.2	33.3	30.5	32.4	33.1	35.0
2500	37.0	35.6	32.4	34.1	35.4	32.4	29.9	28.6	27.7	28.2	27.2	29.0	28.8	29.3	27.1	29.2	29.7	31.8
3150	33.4	31.7	28.7	30.2	31.5	28.6	26.2	25.0	24.0	24.6	23.5	25.4	25.2	26.2	23.9	25.7	26.0	28.3
4000	29.5	27.5	24.5	26.0	27.2	24.5	22.2	21.0	20.0	20.6	19.5	21.5	21.2	22.1	19.5	21.8	22.0	24.5
5000	25.0	22.7	19.9	21.2	22.3	19.9	17.8	16.6	15.6	16.3	15.2	17.3	16.9	17.8	15.3	17.6	17.6	20.3
6300	20.2	17.4	14.8	15.9	16.8	14.9	12.9	11.9	10.8	11.7	10.7	12.9	12.4	13.3	10.7	13.2	13.0	15.9
8000	15.3	12.0	9.9	10.6	11.0	9.9	8.3	7.5	6.4	7.7	6.7	8.9	8.6	9.5	6.8	9.3	9.5	12.1
10000	10.2	6.5	4.9	5.2	5.2	4.9	3.7	3.0	2.0	3.6	2.8	4.8	4.7	5.7	2.9	5.3	6.1	8.1
12500	5.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	1.3	.0	1.4	2.6	4.2
16000																		.3
20000																		2.3
25000																		

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:

J75-P-19 ENGINE IN THE

TEXAS ASE HUSH HOUSE

(OPERATIONS:

(91 % RPM

(SINGLE ENGINE

(GROUND RUNUP IN THE

(TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST BF-716-001

RUN 01

AIRCRAFT CODE 716

OPERATION CODE 00117

PROFILE VERSION A

20 NOV 81

PAGE G3

ANGLE (DEGREES)

DISTANCE

(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.1	67.7	63.5	65.9	67.7	63.4	60.6	57.3	59.5	55.3	56.0	57.0	50.3	55.0	54.9	56.5	50.8	59.0	53.4
250	65.0	65.5	61.4	63.8	65.5	61.2	58.4	57.2	57.2	54.7	53.6	54.8	54.7	55.8	52.8	54.3	54.7	56.9	57.4
315	62.7	63.3	59.2	61.6	63.2	59.0	56.2	54.9	54.9	52.5	51.5	52.7	52.0	54.7	50.7	52.2	52.6	54.7	55.2
400	60.5	61.0	56.9	59.3	60.9	56.7	53.9	52.7	52.5	50.2	49.2	50.5	50.4	52.5	48.3	50.0	50.4	52.5	53.1
500	58.1	58.7	54.8	57.0	58.6	54.4	51.6	50.3	50.1	47.8	46.9	48.2	49.2	50.2	46.3	47.7	48.2	50.3	50.9
630	55.7	56.3	52.2	54.5	56.2	52.0	49.2	47.9	47.5	45.4	44.5	45.3	45.9	47.3	43.9	45.4	46.0	48.0	48.7
800	53.3	53.8	49.7	52.0	53.7	49.6	46.7	45.5	44.9	43.0	42.0	43.5	43.5	45.5	41.5	43.1	43.7	45.6	46.4
1000	50.7	51.1	47.1	49.4	51.0	47.0	44.1	42.9	42.2	40.4	39.5	40.3	41.0	43.0	39.0	40.7	41.4	43.2	44.1
1250	48.0	48.4	44.3	46.6	48.2	44.2	41.4	40.2	39.4	37.6	36.7	38.2	38.3	40.3	36.4	38.1	38.9	40.7	41.7
1500	45.1	45.4	41.4	43.7	45.3	41.3	38.5	37.3	36.4	34.7	33.8	35.4	35.4	37.4	33.8	35.4	36.2	37.9	39.1
2000	42.1	42.2	38.2	40.5	42.0	38.2	35.4	34.2	33.2	31.6	30.6	32.3	32.2	34.3	30.5	32.4	33.1	35.0	36.2
2500	38.8	38.7	34.8	37.0	38.5	34.8	32.1	30.9	29.3	28.2	27.2	29.0	29.8	30.3	27.1	29.2	29.7	31.8	33.1
3150	35.2	34.9	31.1	33.2	34.6	31.1	28.4	27.3	26.1	24.6	23.5	25.4	25.2	27.2	23.5	25.7	26.0	28.3	29.6
4000	30.9	30.0	26.4	28.3	29.6	26.3	24.0	22.8	21.6	20.6	19.5	21.5	21.2	22.3	19.5	21.8	22.0	24.5	25.9
5000	26.1	24.6	21.3	23.0	24.1	21.4	19.1	18.0	16.0	15.3	15.2	17.3	15.9	18.4	15.3	17.6	17.6	20.3	21.7
6300	20.9	18.7	15.7	17.1	18.0	15.8	13.8	12.8	11.6	11.7	10.7	12.9	12.4	13.7	10.7	13.2	13.0	15.9	17.2
8000	15.7	12.6	10.3	11.1	11.6	10.4	8.8	7.9	6.8	7.7	6.7	8.9	8.0	9.7	6.8	9.3	9.5	12.1	13.6
10000	10.2	6.5	4.9	5.2	5.2	4.9	3.7	3.0	2.0	3.6	2.8	4.8	4.7	5.7	2.9	5.3	6.1	8.1	9.8
12500	5.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	1.3	.0	1.4	2.8	4.2	6.0
16000																		.3	2.3
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE
 OPERATION: 91 % RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE
 METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB
 AIRCRAFT CODE 716 OPERATION CODE 00117 PROFILE VERSION A 20 NOV 81
 IDENTIFICATION: OMEGA 8.2 TEST 8F-716-001 RUN 01

	P=PNLT											A=AL	T=ALT											
	-10	0	10	20	30	40	50	60	70	80	90		-10	0	10	20	30	40	50	60	70	80	90	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				IDENTIFICATION:	
1/3 OCTAVE BAND																				OMEGA 8.2	
DISTANCE = 250 FEET																				TEST BF-715-001	
																				RUN 02	
NOISE SOURCE/SUBJECT:																				METEOROLOGY:	
(J75-P-19 ENGINE IN THE																				TEMP = 59 F	
(TEXAS ASE HUSH HOUSE																				BAR PRESS = 29.92 IN HG	
(REL HUMID = 70 %	
(TEXAS ASE HUSH HOUSE																				DELTA N = 0.0 DB	
BAND CENTER																				ANGLE (DEGREES)	
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
50	77	74	79	76	79	81	82	83	83	79	78	79	84	86	89	93	93	96	95		
63	71	69	71	72	70	72	73	77	77	76	79	81	83	80	81	87	88	91	89		
80	70	66	67	67	68	67	68	72	74	76	75	75	79	79	79	76	79	84	81		
100	71	68	66	68	68	66	66	69	69	72	74	74	75	75	73	72	73	76	75		
125	68	66	65	65	64	62	63	65	64	68	71	71	70	72	71	70	69	69	69		
160	65	60	60	63	61	60	62	62	60	62	65	67	63	70	69	66	65	66	72		
200	57	56	56	59	57	58	57	57	55	57	62	62	68	71	69	61	60	66	71		
250	61	61	60	60	58	55	56	57	54	54	57	59	63	67	66	62	61	65	70		
315	65	57	60	59	56	52	53	53	51	52	52	54	57	60	64	59	60	63	69		
400	72	66	65	66	65	61	62	62	55	55	51	53	55	59	58	58	59	62	69		
500	76	73	72	71	73	73	69	69	64	60	58	56	58	58	60	61	59	64	67		
630	72	70	68	67	71	71	64	65	53	59	56	56	58	60	61	60	59	62	75		
800	65	63	62	63	65	64	63	61	59	58	56	57	58	59	60	58	59	62	68		
1000	65	64	62	63	64	62	59	62	57	56	56	57	59	59	61	59	59	62	69		
1250	67	66	63	64	66	62	61	62	58	56	55	57	59	60	63	61	62	62	70		
1600	67	67	64	64	65	62	61	59	58	56	54	57	53	61	63	56	56	59	72		
2000	60	61	58	59	59	58	54	54	54	52	53	57	60	62	66	55	54	58	67		
2500	53	52	52	53	53	50	49	48	48	50	51	52	55	57	58	53	53	56	70		
3150	49	47	47	49	48	47	46	45	45	50	49	54	54	54	55	52	52	54	65		
4000	45	45	44	46	46	44	45	45	48	49	49	52	51	53	55	51	51	53	64		
5000	46	47	45	50	49	43	44	43	47	49	59	51	50	52	52	51	50	52	64		
6300	48	48	45	50	46	43	44	43	45	48	57	48	48	50	52	48	48	50	66		
8000	50	48	46	46	45	43	45	44	47	47	46	47	48	49	55	47	46	49	66		
10000	46	45	44	44	44	45	46	42	45	44	45	45	45	46	51	47	44	46	60		
OVERALL	83	80	81	80	82	83	83	84	85	83	84	85	83	88	91	94	94	98	97		

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
J75-P-19 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATIONS:																			
(MILITARY POWER (103%)																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.6	88.3	86.3	87.3	88.1	87.0	85.1	83.6	84.8	83.6	86.1	86.4	86.4	89.8	92.3	92.2	92.3	95.7	99.2
250	88.4	86.1	84.7	85.1	85.9	84.8	82.8	83.4	82.3	81.2	83.7	83.9	86.0	87.2	89.8	90.1	90.1	93.5	97.0
315	86.2	83.9	82.5	82.8	83.7	82.6	80.6	81.1	79.8	79.7	81.2	81.4	83.5	84.7	87.2	87.9	87.9	91.4	94.8
400	84.0	81.7	80.2	80.6	81.4	80.3	78.2	78.8	77.2	76.2	78.6	78.8	80.9	82.1	84.6	85.2	85.2	89.2	92.5
500	81.7	79.3	77.9	78.2	79.1	78.0	75.9	76.5	74.2	73.7	75.9	76.2	78.3	79.4	81.9	82.4	82.5	86.8	89.9
530	79.3	77.0	75.5	75.8	76.8	75.6	73.5	74.1	71.8	71.1	73.0	73.5	75.6	76.8	79.1	79.7	79.7	84.1	87.1
600	76.9	74.5	73.1	73.4	74.3	73.2	71.0	71.6	69.1	68.4	70.0	70.7	72.9	74.1	76.4	76.8	76.9	81.2	84.3
1000	74.4	72.0	70.5	70.8	71.8	70.6	68.4	69.0	66.4	65.5	66.7	67.8	70.0	71.2	73.5	73.9	74.0	78.3	81.3
1250	71.7	69.2	67.8	68.0	69.0	67.9	65.6	66.2	63.2	62.1	63.4	64.7	66.9	68.1	70.5	70.9	71.0	75.3	78.3
1500	68.9	66.4	64.9	65.1	66.2	65.1	62.6	63.2	60.4	59.4	59.4	60.9	63.3	64.8	67.2	67.6	67.7	72.1	75.0
2000	65.9	63.4	61.9	62.0	63.2	62.1	59.5	60.1	56.9	54.8	54.9	56.6	59.4	61.1	63.5	63.3	63.4	67.3	70.9
2500	62.7	60.2	58.5	58.8	59.3	58.8	55.9	56.5	53.0	50.5	50.1	51.9	55.0	56.5	59.2	58.4	58.4	63.0	66.6
3150	58.6	56.0	54.2	54.3	55.6	54.4	51.3	52.1	47.8	45.0	44.8	46.2	49.2	51.5	54.4	52.7	52.8	57.5	62.6
4000	54.1	51.5	49.6	49.6	51.2	50.0	46.5	46.8	42.3	38.5	37.5	39.1	43.2	45.2	48.7	45.3	45.2	50.9	57.9
5000	49.4	46.8	44.7	44.4	46.3	45.3	41.1	41.4	36.3	32.4	30.0	31.8	34.4	37.4	40.9	36.9	37.1	42.4	52.3
6300	44.1	41.3	39.0	38.8	40.8	39.8	35.3	35.8	29.8	24.0	20.4	23.0	26.6	26.1	32.9	28.3	29.7	33.9	46.2
8000	39.6	36.5	34.0	33.9	36.1	34.9	30.6	30.8	22.7	15.4	10.7	10.3	15.7	19.5	23.5	20.4	19.4	27.1	41.1
10000	34.4	31.1	27.9	28.1	30.7	29.1	23.6	24.3	14.6	6.8	1.1		4.8	10.3	8.3	7.5	9.2	18.5	34.8
12500	28.2	24.2	21.1	20.2	23.5	23.3	14.6	16.6	8.4					2.3				9.8	27.6
16000	22.0	16.5	12.1	11.2	15.7	15.5	6.8	7.7										1.1	17.0
20000	11.3	8.8	3.1	2.2	7.8	7.6													6.8
25000	.6	1.1																	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
J75-F-19 ENGINE IN THE																
TEXAS ASE HUSH HOUSE																
OPERATIONS:																
MILITARY POWER (103%)																
SINGLE ENGINE																
GROUND RUNUP IN THE																
TEXAS ASE HUSH HOUSE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	92.0	90.2	88.6	87.0	85.4	83.8	82.2	80.6	79.0	77.4	75.8	74.2	72.6	71.0	69.4	67.8
250	89.6	88.0	86.4	84.8	83.2	81.6	80.0	78.4	76.8	75.2	73.6	72.0	70.4	68.8	67.2	65.6
315	87.6	86.0	84.4	82.8	81.2	79.6	78.0	76.4	74.8	73.2	71.6	70.0	68.4	66.8	65.2	63.6
400	85.3	83.6	81.9	80.2	78.5	76.8	75.1	73.4	71.7	70.0	68.3	66.6	64.9	63.2	61.5	59.8
500	83.0	81.3	79.6	77.9	76.2	74.5	72.8	71.1	69.4	67.7	66.0	64.3	62.6	60.9	59.2	57.5
530	80.7	78.9	77.2	75.4	73.6	71.8	70.0	68.2	66.4	64.6	62.8	61.0	59.2	57.4	55.6	53.8
800	78.3	76.4	74.5	72.6	70.7	68.8	66.9	65.0	63.1	61.2	59.3	57.4	55.5	53.6	51.7	49.8
1000	75.8	73.9	72.0	70.1	68.2	66.3	64.4	62.5	60.6	58.7	56.8	54.9	53.0	51.1	49.2	47.3
1250	73.1	71.1	69.2	67.3	65.4	63.5	61.6	59.7	57.8	55.9	54.0	52.1	50.2	48.3	46.4	44.5
1500	70.3	68.3	66.4	64.5	62.6	60.7	58.8	56.9	55.0	53.1	51.2	49.3	47.4	45.5	43.6	41.7
2000	67.3	65.3	63.4	61.5	59.6	57.7	55.8	53.9	52.0	50.1	48.2	46.3	44.4	42.5	40.6	38.7
2500	64.1	62.1	60.2	58.3	56.4	54.5	52.6	50.7	48.8	46.9	45.0	43.1	41.2	39.3	37.4	35.5
3150	60.0	57.9	55.9	53.9	51.9	49.9	47.9	45.9	43.9	41.9	39.9	37.9	35.9	33.9	31.9	29.9
4000	55.2	53.1	51.1	49.1	47.1	45.1	43.1	41.1	39.1	37.1	35.1	33.1	31.1	29.1	27.1	25.1
5000	50.2	47.9	45.7	43.5	41.3	39.1	36.9	34.7	32.5	30.3	28.1	25.9	23.7	21.5	19.3	17.1
6300	44.6	42.1	39.7	37.4	35.1	32.8	30.5	28.2	25.9	23.6	21.3	19.0	16.7	14.4	12.1	9.8
8000	39.9	36.8	34.4	32.0	29.6	27.2	24.8	22.4	20.0	17.6	15.2	12.8	10.4	8.0	5.6	3.2
10000	34.4	31.1	27.9	24.6	21.3	18.0	14.7	11.4	8.1	4.8	1.5					
12500	28.2	24.2	21.1	18.0	14.9	11.8	8.7	5.6	2.5							
16000	22.0	16.5	12.1	11.2	15.7	15.5	6.8	7.7								
20000	11.3	8.8	3.1	2.2	7.8	7.6										
25000	.6	1.1														

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																													
NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE										METEOROLOGY: TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB										IDENTIFICATIONS: OMEGA 8.2 TEST BF-716-001 RUN 02 AIRCRAFT CODE 715 OPERATION CODE 00104 PROFILE VERSION A 20 NOV 81 PAGE G2									
(OPERATIONS: MILITARY POWER (103%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE										(TEMPERATURE BAR PRESS REL HUMID DELTA N										()									
										ANGLE (DEGREES)																			
										0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	80.7	79.4	77.1	77.1	78.9	76.2	74.3	75.1	71.6	68.7	71.7	70.0	72.1	73.3	77.2	73.4	73.9	75.3	85.5										
250	78.7	77.3	75.0	75.0	76.8	76.1	72.8	73.1	69.2	65.5	69.5	67.9	70.0	71.1	75.0	71.3	71.8	73.3	83.3										
315	76.6	75.2	72.9	72.9	74.8	74.1	70.7	71.0	67.4	64.4	67.3	65.7	67.9	69.0	72.9	69.2	69.8	71.2	81.1										
400	74.5	73.1	70.8	70.8	72.6	72.0	68.6	68.9	65.2	62.3	65.0	63.5	65.7	66.8	70.7	67.1	67.7	69.1	78.9										
500	72.4	70.9	68.7	68.6	70.5	69.8	66.4	66.7	63.1	60.1	62.6	61.3	63.4	64.6	68.4	65.0	65.5	67.0	76.6										
630	70.2	68.7	66.5	66.5	68.3	67.7	64.3	64.6	60.8	57.8	60.2	59.0	61.1	62.3	66.1	62.8	63.3	64.8	74.3										
800	68.0	66.5	64.3	64.2	66.1	65.5	62.0	62.4	58.6	55.5	57.7	56.6	58.8	59.9	63.7	60.5	61.1	62.6	71.9										
1000	65.8	64.2	62.0	61.9	63.8	63.3	59.8	60.1	56.3	53.1	55.1	54.1	56.3	57.3	61.2	58.3	58.9	60.4	69.5										
1250	63.5	61.9	59.7	59.6	61.5	61.0	57.4	57.8	53.9	50.6	52.4	51.4	53.6	54.7	58.6	55.9	56.5	58.0	67.0										
1600	61.1	59.5	57.3	57.2	59.1	58.6	55.0	55.4	51.4	47.9	49.5	48.6	50.8	51.9	55.8	53.3	53.9	55.4	64.3										
2000	58.7	56.9	54.8	54.6	56.6	56.2	52.5	52.8	48.7	45.2	46.5	45.5	47.8	48.9	52.8	50.3	50.9	52.4	61.6										
2500	55.9	54.2	52.0	51.9	53.9	53.6	49.7	50.1	45.9	42.2	43.3	42.3	44.5	45.5	49.6	47.1	47.6	49.1	58.6										
3150	52.6	51.0	48.8	48.7	50.8	50.8	46.6	46.9	42.8	38.9	39.9	38.8	41.0	42.0	46.1	43.5	44.0	45.5	55.4										
4000	48.7	47.0	44.9	44.8	46.9	46.6	42.8	43.0	39.0	35.3	35.7	35.1	37.1	38.1	41.9	39.4	39.8	41.6	51.2										
5000	44.3	42.5	40.4	40.4	42.5	42.2	38.2	38.5	34.7	31.3	31.3	31.0	33.0	33.9	37.2	35.0	35.3	37.3	46.5										
6300	39.6	37.8	35.7	35.7	37.8	37.5	33.4	33.8	30.1	27.0	26.5	26.5	28.6	29.4	32.3	30.3	30.6	32.9	41.6										
8000	35.7	33.6	31.7	31.6	33.8	33.5	29.3	29.7	26.1	23.1	22.2	22.5	24.5	25.3	27.6	26.4	26.6	29.3	37.1										
10000	31.5	29.2	27.3	27.3	29.4	29.2	24.9	25.2	21.7	18.9	17.7	18.2	20.2	21.1	22.8	22.5	22.6	25.0	32.3										
12500	27.3	24.8	23.0	22.9	25.0	24.8	20.2	20.9	17.4	14.5	13.5	13.9	15.9	15.8	18.3	18.9	19.1	22.4	27.8										
16000	22.6	20.0	18.3	18.0	20.1	20.0	15.7	16.1	12.7	10.0	9.2	9.6	11.8	12.7	14.1	15.6	15.8	19.2	23.0										
20000	17.4	14.6	13.0	12.7	14.7	14.7	10.4	11.0	7.8	5.4	5.2	5.7	8.1	8.9	10.4	12.6	12.9	16.2	18.3										
25000	11.5	8.6	7.1	6.8	8.6	8.6	4.8	5.6	3.1	1.2	1.5	2.2	4.7	5.5	7.0	9.8	10.1	13.5	14.0										

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
 OMEGA 8.2
 TEST BF-716-001
 RUN 02
 AIRCRAFT CODE 716
 OPERATION CODE 00104
 PROFILE VERSION A
 20 NOV 81
 PAGE J2

NOISE SOURCE/SUBJECT:
 J75-P-19 ENGINE IN THE
 TEXAS ASE HUSH HOUSE

OPERATION:
 MILITARY POWER (103%)
 SINGLE ENGINE
 GROUND RUNUP IN THE
 TEXAS ASE HUSH HOUSE

METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB

DISTANCE = 250 FEET

	P=PNLT										A=AL										T=ALT																
	10	20	30	40	50	60	70	80	90	100	110		10	20	30	40	50	60	70	80	90	100	110		10	20	30	40	50	60	70	80	90	100	110		
0	(.	(.	(.
10	(.	(.	(.
20	(.	(.	(.
30	(.	(.	(.
40	(.	(.	(.
50	(.	(.	(.
60	(.	(.	(.
70	(.	(.	(.
80	(.	(.	(.
90	(.	(.	(.
100	(.	(.	(.
110	(.	(.	(.
120	(.	(.	(.
130	(.	(.	(.
140	(.	(.	(.
150	(.	(.	(.
160	(.	(.	(.
170	(.	(.	(.
180	(.	(.	(.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	IDENTIFICATION:		
1/3 OCTAVE BAND																	) OMEGA 8.2		
DISTANCE = 250 FEET																	) TEST BF-716-001		
																	) RUN 03		
(NOISE SOURCE/SUBJECT:																	) METEOROLOGY:		
((J75-P-19 ENGINE IN THE																	) TEMP = 59 F		
(TEXAS ASE HUSH HOUSE																	) BAR PRESS = 29.92 IN HG		
((SINGLE ENGINE																	) PROFILE VERSION A		
((GROUND RUNUP IN THE																	) 20 NOV 81		
((TEXAS ASE HUSH HOUSE																	) DELTA N = 0.0 DB		
																	) PAGE C1		
(BAND CENTER																			
(FREQ (HZ)																	ANGLE (DEGREES)		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(50	83	83	87	86	83	92	90	92	92	91	93	96	100	102	102	104	104	106	105
(63	83	82	82	85	82	88	86	89	89	90	88	92	94	99	98	100	102	103	102
(80	77	77	78	80	76	78	77	82	85	37	30	92	93	92	88	91	95	96	94
(100	79	74	74	73	74	75	74	76	73	85	84	85	87	89	85	84	84	86	82
(125	74	70	71	71	70	70	69	69	73	77	78	80	73	80	79	78	80	79	76
(160	70	65	67	67	65	65	66	67	63	72	75	74	75	78	76	72	75	75	72
(200	64	63	64	65	62	62	62	64	64	67	71	75	71	74	71	70	71	72	71
(250	66	64	63	64	62	60	61	61	62	64	66	70	72	71	70	69	70	70	69
(315	66	59	61	60	59	57	56	58	53	61	61	64	67	68	64	66	66	68	68
(400	71	63	64	64	64	63	59	61	58	61	61	63	67	64	63	65	65	67	66
(500	76	71	71	72	70	72	64	67	63	63	62	64	68	63	64	66	66	67	65
(630	70	67	68	66	68	69	62	65	63	63	63	65	68	64	65	66	66	67	64
(800	67	63	64	64	64	65	63	61	63	64	64	65	68	63	65	66	66	67	63
(1000	69	66	65	65	66	65	62	62	62	63	63	65	67	63	66	66	67	67	63
(1250	71	68	66	67	66	65	64	63	62	62	61	65	66	65	67	69	70	68	64
(1600	72	70	68	67	67	65	64	62	62	62	60	64	66	66	68	66	65	66	62
(2000	65	65	63	63	62	60	59	58	59	59	59	63	65	65	65	61	61	62	59
(2500	56	55	56	58	57	54	53	53	56	57	58	61	64	59	60	58	59	59	56
(3150	49	49	49	50	50	50	51	51	55	55	56	60	60	56	57	57	57	58	55
(4000	49	49	47	48	48	47	51	51	53	54	55	58	57	56	57	56	56	57	55
(5000	52	51	45	49	48	47	48	48	52	53	53	55	54	54	54	54	53	55	53
(6300	52	50	47	48	47	46	48	47	50	52	51	53	53	53	53	52	52	53	51
(8000	50	50	46	47	47	46	48	47	50	52	52	53	53	53	53	53	52	53	52
(10000	49	47	45	46	46	42	47	47	48	49	51	52	52	53	51	52	51	52	52
(OVERALL	80	87	89	89	91	94	92	94	94	95	96	99	102	104	104	106	107	108	107

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																																							
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																																							
NOISE SOURCE/SUBJECT:										OPERATION:					METEOROLOGY:					IDENTIFICATION:																			
J75-P-19 ENGINE IN THE										(AFTERBURNER POWER (103%))					TEMP = 59 F					() AIRCRAFT CODE 716																			
TEXAS ASE HUSH HOUSE										(SINGLE ENGINE)					BAR PRESS =29.92 IN HG					() OPERATION CODE 00103																			
										(GROUND RUNUP IN THE					REL HUMID = 70 %					() PROFILE VERSION A																			
										(TEXAS ASE HUSH HOUSE					DELTA N = 0.0 DB					() 20 NOV 81																			
																				() PAGE G1																			
ANGLE (DEGREES)																																							
DISTANCE		0		10		20		30		40		50		60		70		80		90		100		110		120		130		140		150		160		170		180	
(FEET)																																							
200		83.2		80.0		79.0		79.4		78.3		78.7		75.4		76.1		75.1		75.3		76.9		79.4		81.0		82.1		80.9		81.9		84.6		84.0		82.5	
250		81.1		77.9		76.9		77.3		76.2		76.7		73.3		74.0		73.0		74.2		74.8		77.3		79.0		80.0		78.6		79.9		82.5		82.0		80.4	
315		79.0		75.8		74.8		75.2		74.1		74.6		71.2		71.9		70.9		72.1		72.7		75.3		76.9		78.0		76.7		77.9		80.5		80.0		78.4	
400		76.9		73.6		72.7		73.1		72.0		72.5		69.0		69.8		68.8		70.0		70.6		73.2		74.8		75.9		74.7		75.8		78.4		77.9		76.4	
500		74.7		71.5		70.5		70.9		69.8		70.3		66.8		67.7		66.6		67.9		68.5		71.0		72.7		73.3		72.5		73.7		76.4		75.9		74.3	
530		72.5		69.2		68.3		68.7		67.6		68.2		64.6		65.5		64.4		65.7		66.3		68.8		70.5		71.6		70.4		71.6		74.3		73.8		72.3	
600		70.3		66.9		66.0		66.4		65.3		65.9		62.4		63.3		62.2		63.4		64.0		66.5		68.3		69.4		68.2		69.5		72.2		71.7		70.2	
1000		67.9		64.6		63.7		64.1		63.0		63.7		60.0		61.0		59.9		61.0		61.6		64.2		66.0		67.2		65.9		67.3		70.0		69.6		68.1	
1250		65.5		62.1		61.3		61.7		60.6		61.3		57.6		58.7		57.4		58.4		59.0		61.5		63.5		64.7		63.5		65.0		67.7		67.3		65.9	
1600		63.0		59.5		58.6		59.2		58.1		58.9		55.0		56.1		54.6		55.5		56.1		58.6		60.7		61.9		60.8		62.4		64.9		64.5		63.2	
2000		60.4		56.8		56.1		56.5		55.4		56.2		52.2		53.2		51.6		52.5		52.9		55.5		57.6		58.5		57.7		59.2		61.7		61.3		59.9	
2500		57.5		53.9		53.2		53.6		52.5		53.4		49.2		50.2		48.4		49.2		49.5		52.1		54.3		54.9		54.3		55.7		58.1		57.7		56.2	
3150		54.2		50.6		50.0		50.4		49.3		50.2		45.9		46.8		45.0		45.6		45.8		48.4		50.6		51.0		50.5		51.9		54.2		53.7		52.2	
4000		50.2		46.7		46.1		46.4		45.5		46.2		42.0		42.8		41.2		41.7		41.9		44.3		46.6		46.4		46.3		47.7		49.6		49.3		47.7	
5000		45.7		42.2		41.5		42.0		41.2		41.8		37.7		38.4		37.0		37.6		37.7		40.1		42.3		41.7		41.9		43.3		44.8		44.7		42.9	
6300		40.9		37.5		36.9		37.3		36.6		37.1		33.1		33.8		32.6		33.2		33.3		35.7		37.9		36.3		37.3		38.7		40.0		40.1		38.3	
8000		36.5		33.0		32.7		33.0		32.4		33.0		28.9		29.0		28.0		29.5		29.7		32.0		34.3		33.5		33.9		35.5		36.5		37.2		35.6	
10000		31.9		28.2		28.2		28.4		27.9		28.6		24.5		25.7		24.9		25.6		26.0		28.4		30.8		30.6		30.6		32.4		33.2		34.4		33.0	
12500		27.4		23.5		23.7		24.0		23.4		24.4		20.1		21.8		21.0		21.8		22.4		24.8		27.3		27.8		27.5		29.5		30.4		31.7		30.5	
16000		22.6		18.5		19.0		19.2		18.6		20.0		15.6		17.9		17.3		18.1		19.1		21.5		24.1		25.1		24.7		26.7		27.7		29.2		28.1	
20000		17.4		13.3		14.0		14.2		13.7		15.5		11.9		14.2		13.9		14.8		16.0		18.5		21.1		22.5		22.0		24.2		25.1		26.7		25.6	
25000		11.9		8.0		8.9		9.2		8.9		11.3		8.4		10.9		10.9		11.7		13.1		15.6		18.2		20.0		19.5		21.6		22.6		24.1		23.2	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:

AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 08

IDENTIFICATION:

OMEGA 8.2
TEST 8F-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

	P=PNLT										T=ALT									
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

[illegible]

NOISE PRODUCED ON THE GROUND BY

HOUSE (J72-P-17 ENG.)

DURING GROUND RUN-UP OPERATIONS

TEST 8F-717-001
AIRCRAFT CODE: 717
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Page

Engine Runup, 90% RPM	247
Military Power, 103% RPM	253
Afterburner Power, 103% RPM	259

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AMERICAN AIR FORCE RESEARCH LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 717																			
(J75-P-17 ENGINE IN THE)) TEMP = 59 F) OPERATION CODE 00117																			
(TEXAS ASE HUSH HOUSE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
()) REL HUMID = 70 %) 20 NOV 81																			
()) DELTA N = 0.0 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	63	63	63	63	63	63	63	63	66	65	66	66	68	71	72	72	72	72	72
63	61	61	61	61	61	61	61	61	63	63	63	63	64	62	65	65	65	65	65
80	60	60	60	60	60	60	60	60	60	58	59	59	61	60	58	58	58	58	58
100	58	58	58	58	58	58	58	58	59	57	59	59	58	58	56	56	56	56	56
125	54	54	54	54	54	54	54	54	57	59	68	59	57	57	57	57	57	57	57
160	49	49	49	49	49	49	49	49	51	50	59	52	52	52	52	51	51	51	51
200	45	45	45	45	45	45	45	45	47	46	50	49	52	53	48	48	48	48	48
250	43	43	43	43	43	43	43	43	45	44	53	47	49	51	46	46	46	46	46
315	37	37	37	37	37	37	37	37	39	39	49	42	41	42	43	43	43	43	43
400	35	35	35	35	35	35	35	35	37	38	44	43	38	39	41	41	41	41	41
500	35	35	35	35	35	35	35	35	37	37	38	41	38	42	41	41	41	41	41
630	36	36	36	36	36	36	36	36	37	36	38	39	37	41	40	40	40	40	40
800	38	38	38	38	38	38	38	38	38	37	40	38	38	46	40	40	40	40	40
1000	40	40	40	40	40	40	40	40	37	37	38	38	39	42	43	43	43	43	43
1250	39	39	39	39	39	39	39	39	37	36	37	38	38	41	42	42	42	42	42
1600	39	39	39	39	39	39	39	39	37	34	37	39	40	43	41	41	41	41	41
2000	44	44	44	44	44	44	44	44	41	44	49	42	42	42	41	41	41	41	41
2500	39	39	39	39	39	39	39	39	36	36	37	36	37	38	37	37	37	37	37
3150	40	40	40	40	40	40	40	40	34	32	34	35	36	38	38	38	38	38	38
4000	45	45	45	45	45	45	45	45	38	33	35	41	36	43	37	37	37	37	37
5000	39	39	39	39	39	39	39	39	32	30	32	36	35	42	35	35	35	35	35
6300	41	41	41	41	41	41	41	41	33	31	31	35	33	40	34	34	34	34	34
8000	39	39	39	39	39	39	39	39	33	31	31	31	35	38	33	33	33	33	33
10000	41	41	41	41	41	41	41	41	33	35	31	29	40	39	36	36	36	36	36
OVERALL	67	67	67	67	67	67	67	67	69	69	72	70	71	72	73	73	73	73	73

TABLE: PERCEIVED NOISE LEVEL (PNL)																								
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																								
NOISE SOURCE/SUBJECT:										(OPERATIONS:					METEOROLOGY:) AIRCRAFT CODE 717				
J73-P-17 ENGINE IN THE										(90% RPM) TEMP = 59 F) OPERATION CODE 00117				
TEXAS ASE HUSH HOUSE										(SINGLE ENGINE) BAR PRESS =29.92 IN HG) PROFILE VERSION A				
										(GROUND RUNUP IN THE) REL HUMID = 70 %) 20 NOV 81				
										(TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB) PAGE 03				

DISTANCE																								
ANGLE (DEGREES)																								
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180					
200	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	67.7	68.1	73.2	83.5	60.7	71.9	70.1	70.1	70.1	70.1					
250	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	65.3	65.7	70.9	67.1	66.3	69.5	67.5	67.5	67.5	67.5					
315	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	62.9	63.2	68.4	64.6	63.3	67.0	64.9	64.9	64.9	64.9					
400	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	60.2	60.6	65.9	62.0	61.4	64.3	62.2	62.2	62.2	62.2					
500	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	57.4	57.7	63.2	59.0	58.5	61.5	59.3	59.3	59.3	59.3					
630	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	54.4	54.7	60.1	56.0	55.5	58.4	56.1	56.1	56.1	56.1					
800	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	51.0	51.6	56.9	52.9	52.0	55.0	52.6	52.6	52.6	52.6					
1000	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	47.4	48.0	53.4	49.3	48.5	51.2	49.1	49.1	49.1	49.1					
1250	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	43.0	43.8	49.3	45.2	44.3	47.1	45.2	45.2	45.2	45.2					
1600	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	37.9	38.9	45.3	40.6	39.5	42.6	40.6	40.6	40.6	40.6					
2000	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	30.4	31.5	40.0	33.8	32.2	36.7	34.4	34.4	34.4	34.4					
2500	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	23.6	24.6	32.8	23.5	23.4	29.3	26.2	26.2	26.2	26.2					
3150	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	13.3	13.9	24.8	12.7	12.7	19.5	10.6	10.6	10.6	10.6					
4000	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.0	1.0	14.3	1.8	1.8	9.2									
5000												3.7												
6300																								
8000																								
10000																								
12500																								
16000																								
20000																								
25000																								

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(J75-P-17 ENGINE IN THE)										TEMP = 59 F									
(TEXAS ASE HUSH HOUSE)										BAR PRESS =29.92 IN HG									
()										REL HUMID = 70 %									
(TEXAS ASE HUSH HOUSE)										DELTA N = 0.0 DB									
DISTANCE										ANGLE (DEGREES)									
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	69.4	71.1	77.1	71.2	70.0	73.3	70.7	70.7	70.7	70.7
250	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	57.0	58.7	74.8	69.8	67.9	70.9	68.1	68.1	68.1	68.1
315	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	54.6	56.2	72.3	66.3	65.1	68.4	65.5	65.5	65.5	65.5
400	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	52.0	53.6	69.8	63.7	62.5	65.8	62.8	62.8	62.8	62.8
500	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	53.1	50.6	67.1	60.7	59.8	63.0	59.9	59.9	59.9	59.9
530	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	55.1	57.7	64.0	57.7	56.7	59.9	56.7	56.7	56.7	56.7
800	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	52.7	54.7	60.8	54.6	53.2	56.5	53.2	53.2	53.2	53.2
1000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	49.1	51.0	57.3	51.0	49.7	52.6	49.7	49.7	49.7	49.7
1250	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	44.8	46.8	53.7	46.9	45.5	48.5	45.8	45.8	45.8	45.8
1600	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	39.8	41.9	49.2	42.3	40.9	44.1	41.4	41.4	41.4	41.4
2000	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	32.1	34.5	43.9	35.5	33.5	38.2	35.0	35.0	35.0	35.0
2500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	19.4	25.6	36.7	29.2	20.5	30.8	26.8	26.8	26.8	26.8
3150	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	11.0	16.9	28.9	14.4	11.1	21.0	11.2	11.2	11.2	11.2
4000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	7.6	17.4	3.1	1.2	10.4				
5000												6.1							
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
J73-P-17 ENGINE IN THE															
TEXAS ASE HUSH HOUSE															
OPERATION:															
90% RPM															
SINGLE ENGINE															
GROUND RUNUP IN THE															
TEXAS ASE HUSH HOUSE															
METEOROLGY:															
TEMP = 59 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 70 %															
DELTA N = 0.0 DB															
DISTANCE															
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
200	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
250	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
315	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
400	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
500	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
630	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
800	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
1000	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
1250	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
1500	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2000	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
2500	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
3150	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
4000	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
5000	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
6300	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
8000	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
10000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
12500															
16000															
20000															
25000															

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(J73-P-17 ENGINE IN THE )										) OMEGA 8.2									
(TEXAS ASE HUSH HOUSE )										) TEST 9F-717-001									
( )										) RUN 01									
( )										) AIRCRAFT CODE 717									
( )										) OPERATION CODE 00117									
( )										) PROFILE VERSION A									
( )										) 20 NOV 81									
( )										) PAGE G3									
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	50.9	50.9	56.9	56.9	56.9	56.9	56.9	56.9	50.9	54.7	56.2	62.1	55.0	55.3	58.2	55.5	55.5	55.5	55.5
250	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	52.2	54.1	60.0	53.9	53.1	56.0	53.4	53.4	53.4	53.4
315	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	50.4	51.9	58.0	51.7	50.3	53.8	51.2	51.2	51.2	51.2
400	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	45.2	49.7	55.8	43.0	46.7	51.5	49.0	49.0	49.0	49.0
500	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	45.9	47.4	53.6	47.3	46.4	49.2	46.8	46.8	46.8	46.8
630	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	43.6	45.1	51.2	44.9	44.0	46.8	44.5	44.5	44.5	44.5
800	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	41.1	42.6	48.6	42.5	41.5	44.3	42.1	42.1	42.1	42.1
1000	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	38.5	40.0	45.9	33.9	39.0	41.7	39.7	39.7	39.7	39.7
1250	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	35.8	37.3	43.0	37.2	36.3	39.0	37.1	37.1	37.1	37.1
1600	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	32.8	34.3	39.9	34.3	33.3	36.2	34.4	34.4	34.4	34.4
2000	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	29.6	31.2	36.5	31.1	30.1	33.2	31.4	31.4	31.4	31.4
2500	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.0	27.7	32.8	27.7	26.7	30.0	28.2	28.2	28.2	28.2
3150	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	22.4	23.9	28.7	23.9	22.9	26.6	24.6	24.6	24.6	24.6
4000	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.0	19.2	23.4	19.4	18.9	22.6	20.7	20.7	20.7	20.7
5000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.4	14.3	18.0	14.7	14.1	18.2	16.4	16.4	16.4	16.4
6300	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.5	9.0	12.4	3.8	9.3	13.6	11.9	11.9	11.9	11.9
8000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	4.5	7.8	5.7	5.1	9.3	7.8	7.8	7.8	7.8
10000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	3.4	1.6	1.6	1.0	4.9	3.6	3.6	3.6	3.6
12500															.5				
16000																			
20000																			
25000																			

TABLE I NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

OPERATIONS:

E SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

J75-P-17 ENGINE IN T

90% RPM

90% RPM

90% RPM

90% RPM

TEMP = 59 F

TEMP = 59 F

TEMP = 59 F

TEMP = 59 F

TEMP = 59 F

OPERATION

OPERATION CODE 001

OPERATION CODE 001

OPERATION CODE 001

OPERATION CODE 001

OPERATION CODE 001

P=PNLT

$$A = AL$$

T=ALT

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 717																		
(J75-P-17 ENGINE IN THE)) TEMP = 59 F) OPERATION CODE 00104																		
(TEXAS ASE HUSH HOUSE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																		
()) REL HUMID = 70 %) 20 NOV 81																		
()) DELTA N = 0.0 DB) PAGE C2																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	78	78	78	78	78	78	79	79	76	76	81	84	88	90	90	90	90
63	74	74	74	74	74	74	74	74	77	77	79	81	77	80	84	84	84	84
80	73	73	73	73	73	73	73	73	75	73	73	77	76	77	76	76	76	76
100	69	69	69	69	69	69	69	69	71	72	71	73	72	73	73	73	73	73
125	67	67	67	67	67	67	67	67	68	69	69	68	69	72	72	72	72	72
160	63	63	63	63	63	63	63	63	64	67	68	68	70	68	67	67	67	67
200	61	61	61	61	61	61	61	61	62	65	64	63	73	67	64	64	64	64
250	59	59	59	59	59	59	59	59	59	63	62	66	69	66	64	64	64	64
315	58	58	58	58	58	58	58	58	50	54	57	53	59	58	59	59	59	59
400	53	53	53	53	53	53	53	53	52	53	54	57	55	59	58	58	58	58
500	58	58	58	58	58	58	58	58	55	57	55	57	56	58	60	60	60	60
630	58	58	58	58	58	58	58	58	57	54	56	53	56	59	61	61	61	61
800	55	55	55	55	55	55	55	55	55	54	55	56	56	58	62	62	62	62
1000	55	55	55	55	55	55	55	55	53	54	54	55	57	57	61	61	61	61
1250	54	54	54	54	54	54	54	54	53	53	54	55	57	58	61	61	61	61
1600	52	52	52	52	52	52	52	52	51	51	53	55	58	58	58	58	58	58
2000	49	49	49	49	49	49	49	49	50	50	53	55	59	54	54	54	54	54
2500	47	47	47	47	47	47	47	47	48	48	51	53	53	50	52	52	52	52
3150	48	48	48	48	48	48	48	48	48	48	51	51	52	50	51	51	51	51
4000	49	49	49	49	49	49	49	49	49	49	50	50	50	50	51	51	51	51
5000	48	48	48	48	48	48	48	48	47	46	49	53	47	48	48	48	48	48
6300	46	46	46	46	46	46	46	46	45	45	46	48	46	47	47	47	47	47
8000	46	46	46	46	46	46	46	46	45	45	44	44	45	47	46	46	46	46
10000	42	42	42	42	42	42	42	42	41	41	41	40	42	44	44	44	44	44
OVERALL	81	81	81	81	81	81	81	81	82	82	82	83	86	89	91	91	91	91

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
J75-P-17 ENGINE IN THE																				
TEXAS ASE HUSH HOUSE																				
OPERATIONS:																				
MILITARY POWER (103%)																				
SINGLE ENGINE																				
GROUND RUNUP IN THE																				
TEXAS ASE HUSH HOUSE																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
METEOROLOGY:																				
AIRCRAFT CODE 717																				
OPERATION CODE 00104																				
PROFILE VERSION A																				
20 NOV 81																				
PAGE D2																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 9F-717-001																				
RUN 02																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	82.4	83.4	84.5	85.5	87.1	89.3	91.0	91.0	91.0	
250	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	80.0	81.1	82.0	84.0	84.7	86.8	88.7	89.7	89.7	
315	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.6	78.7	79.5	81.5	82.4	84.2	86.1	86.1	86.1	
400	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	75.1	76.3	76.9	79.0	79.3	81.5	83.4	83.4	83.4	
500	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.6	73.6	74.2	75.4	77.3	78.8	80.7	80.7	80.7	
530	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	70.0	71.2	71.5	73.7	74.6	76.1	78.0	78.0	78.0	
900	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.2	68.6	68.6	71.0	71.7	73.1	75.1	75.1	75.1	
1000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.4	65.7	65.6	68.1	68.7	70.3	72.2	72.2	72.2	
1250	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	62.5	62.4	63.0	65.3	67.2	69.2	69.2	69.2	
1600	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	56.9	58.9	58.3	61.2	62.1	63.9	65.9	65.9	65.9	
2000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	52.4	54.8	54.8	53.0	55.8	56.1	59.6	61.7	61.7	61.7	
2500	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.0	49.9	49.0	49.0	51.8	53.5	54.6	56.8	56.8	56.8	
3150	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	42.7	44.2	43.9	46.5	48.1	48.4	51.1	51.1	51.1	51.1	
4000	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	34.7	37.0	37.0	40.4	41.3	41.9	44.3	44.3	44.3	44.3	
5000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.9	28.9	29.0	29.0	33.3	33.5	37.6	37.6	37.6	37.6	
6300	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.4	18.4	19.6	17.8	22.6	22.3	29.9	29.9	29.9	29.9	
8000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	8.0	7.9	7.2	11.2	6.4	15.8	22.6	22.6	22.6	
10000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.5	11.3	11.3	11.3	11.3	11.3	
12500																				
16000																				
20000																				
25000																				

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(J75-P-17 ENGINE IN THE																			
(TEXAS ASE HUSH HOUSE																			
(OPERATION:																			
(MILITARY POWER (103%)																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
METEOROLGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(200	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	66.8	66.2	66.4	70.0	71.5	70.9	72.4	72.4	72.4	72.4
(250	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	64.7	64.1	64.2	67.9	69.4	68.8	70.3	70.3	70.3	70.3
(315	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.5	62.0	64.0	65.8	67.3	66.7	68.2	68.2	68.2	68.2
(400	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.4	60.0	61.7	63.6	65.1	64.6	66.1	66.1	66.1	66.1
(500	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.2	57.6	59.4	61.4	62.9	62.4	63.9	63.9	63.9	63.9
(630	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	55.9	55.3	57.1	59.1	60.6	60.1	61.7	61.7	61.7	61.7
(800	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	53.5	52.9	54.6	56.7	58.0	57.7	59.4	59.4	59.4	59.4
(1000	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.1	50.5	52.1	54.2	55.4	55.3	57.1	57.1	57.1	57.1
(1250	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	48.5	47.9	49.4	51.5	52.7	52.6	54.7	54.7	54.7	54.7
(1500	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.8	45.2	46.6	48.6	49.8	49.7	51.1	51.1	51.1	51.1
(2000	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.8	42.2	43.6	45.5	46.5	46.4	48.2	48.2	48.2	48.2
(2500	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	39.7	39.1	40.4	42.2	43.2	43.1	44.9	44.9	44.9	44.9
(3150	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	36.4	35.8	36.9	38.7	39.5	39.4	41.2	41.2	41.2	41.2
(4000	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	32.7	32.1	33.1	34.7	35.6	35.5	37.2	37.2	37.2	37.2
(5000	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	28.6	28.0	28.9	30.5	31.3	31.2	32.9	32.9	32.9	32.9
(6300	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.3	23.7	24.5	26.1	26.8	26.7	28.4	28.4	28.4	28.4
(8000	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	20.5	20.0	20.7	22.3	22.8	22.7	24.4	24.4	24.4	24.4
(10000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.5	16.0	16.6	18.3	18.7	18.6	20.3	20.3	20.3	20.3
(12500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.3	12.0	12.4	14.2	14.5	14.4	16.1	16.1	16.1	16.1
(16000	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.8	8.2	10.3	10.5	10.4	12.3	12.3	12.3	12.3
(20000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.8	4.1	5.5	5.8	5.7	8.0	8.0	8.0	8.0
(25000										.2		.4	3.0	3.4	3.3	5.6	5.6	5.6	5.6

IDENTIFICATION:

TEST BF-717-001

1) METEOROLOGY:

TEMP = 59 F
BAR PRESS = 29.92 IN HG

) 20 NOV 81
) PAGE J2

$$A = AL$$
$$T = ALT$$

420 LE HZ 03064555

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT: (OPERATIONS) METEOROLOGY: AIRCRAFT CODE 717 J75-P-17 ENGINE IN THE (AFTERBURNER POWER (103%)) TEMP = 59 F OPERATION CODE 00103 TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG PROFILE VERSION A (GROUND RUNUP IN THE) REL HUMID = 70 % 20 NOV 81 (TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB PAGE C1																
BAND CENTER FREQ (HZ)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
50	88	88	88	88	88	88	88	88	88	88	88	90	97	99	100	101
63	86	86	86	86	86	86	86	86	86	86	86	87	90	93	95	97
80	85	85	85	85	85	85	85	85	85	85	85	88	88	89	89	89
100	81	81	81	81	81	81	81	81	81	82	82	83	83	85	81	82
125	74	74	74	74	74	74	74	74	74	76	76	77	77	78	78	78
160	69	69	69	69	69	69	69	69	69	72	72	74	75	75	74	73
200	65	65	65	65	65	65	65	65	65	70	70	71	73	75	73	71
250	63	63	63	63	63	63	63	63	63	67	67	69	71	73	73	71
315	59	59	59	59	59	59	59	59	59	60	60	62	65	65	65	66
400	60	60	60	60	60	60	60	60	60	60	60	62	64	62	62	64
500	62	62	62	62	62	62	62	62	62	61	61	63	65	62	64	63
630	63	63	63	63	63	63	63	63	63	63	63	63	65	63	63	63
800	62	62	62	62	62	62	62	62	62	63	63	63	64	63	64	64
1000	60	60	60	60	60	60	60	60	60	61	61	62	63	64	64	64
1250	60	60	60	60	60	60	60	60	60	60	60	61	63	64	66	67
1600	58	58	58	58	58	58	58	58	58	58	58	59	62	65	65	65
2000	57	57	57	57	57	57	57	57	57	57	57	58	62	66	62	60
2500	54	54	54	54	54	54	54	54	54	55	55	56	61	59	56	56
3150	53	53	53	53	53	53	53	53	53	53	53	54	58	55	54	54
4000	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
5000	51	51	51	51	51	51	51	51	51	51	51	51	50	51	51	51
6300	50	50	50	50	50	50	50	50	50	49	49	49	49	49	49	49
8000	50	50	50	50	50	50	50	50	50	48	48	48	48	48	49	49
10000	47	47	47	47	47	47	47	47	47	46	46	45	45	46	48	47
OVERALL	92	92	92	92	92	92	92	92	92	93	93	94	93	100	101	103

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)														IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														OMEGA 8.2	
														TEST 9F-717-001	
														RUN 03	
NOISE SOURCE/SUBJECT:														AIRCRAFT CODE 717	
J75-P-17 ENGINE IN THE														OPERATION CODE 00103	
TEXAS ASE HUSH HOUSE														PROFILE VERSION A	
														20 NOV 61	
														PAGE 01	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(J73-P-17 ENGINE IN THE )										) OMEGA 8.2									
(TEXAS ASE HUSH HOUSE )										) TEST BF-717-001									
(OPERATION: )										) RUN 03									
(AFTERBURNER POWER (103%) )										) AIRCRAFT CODE 717									
(SINGLE ENGINE )										) OPERATION CODE 00103									
(GROUND RUNUP IN THE )										) PROFILE VERSION A									
(TEXAS ASE HUSH HOUSE )										) 20 NOV 81									
) DELTA N = 0.0 DB										) PAGE E1									
) METEOROLGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DISTANCE																			
) ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.4	93.9	97.8	100.2	99.6	100.0	100.0	100.0	100.0
250	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	90.2	91.8	95.8	98.1	97.5	97.9	97.9	97.9	97.9
315	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	88.0	89.5	93.6	96.0	95.4	95.8	95.8	95.8	95.8
400	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	85.5	87.0	91.4	93.9	93.2	93.6	93.6	93.6	93.6
500	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	82.9	84.5	89.2	91.6	91.0	91.4	91.4	91.4	91.4
630	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	80.2	81.9	86.5	89.3	88.8	89.2	89.2	89.2	89.2
800	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	77.4	79.3	83.7	86.5	86.1	86.9	86.9	86.9	86.9
1000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	74.6	76.5	79.3	83.5	86.3	85.2	86.1	86.1	86.1	86.1
1250	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	71.5	73.1	75.9	80.5	83.5	82.2	83.1	83.1	83.1	83.1
1600	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	67.8	69.4	72.2	76.8	79.7	77.9	77.9	77.9	77.9	77.9
2000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	63.5	65.3	68.1	72.8	75.7	73.6	73.6	73.6	73.6	73.6
2500	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	58.7	60.6	63.5	68.3	71.2	68.0	68.8	68.8	68.8	68.8
3150	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	53.5	56.4	59.3	64.1	67.0	64.9	65.7	65.7	65.7	65.7
4000	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	47.8	49.7	52.6	57.4	60.3	57.2	58.0	58.0	58.0	58.0
5000	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	40.6	42.5	45.4	50.2	53.1	49.9	50.7	50.7	50.7	50.7
6300	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	33.3	35.2	38.1	42.9	45.8	42.6	43.4	43.4	43.4	43.4
8000	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	25.5	27.4	30.3	35.1	38.0	34.8	35.6	35.6	35.6	35.6
10000	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	16.8	18.7	21.6	26.4	29.3	26.1	26.9	26.9	26.9	26.9
12500	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.2	9.6	11.0	13.4	14.8	13.2	13.9	13.9	13.9	13.9
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
J75-P-17 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
GROUND RUNUP IN THE																			
TEXAS ASE HUSH HOUSE																			
OPERATIONS:																			
AFTERBURNER POWER (103%)																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.0	74.0	75.7	78.0	79.1	78.9	79.5	79.5	79.5	79.5
250	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.5	72.5	73.7	75.0	77.0	76.8	77.5	77.5	77.5	77.5
315	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	70.4	70.4	71.6	73.9	74.9	74.8	75.4	75.4	75.4	75.4
400	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.3	68.3	69.5	71.8	72.8	72.7	73.4	73.4	73.4	73.4
500	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.2	66.2	67.3	69.6	70.7	70.5	71.3	71.3	71.3	71.3
630	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	64.0	64.0	65.1	67.4	68.2	68.3	69.1	69.1	69.1	69.1
900	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.6	61.6	62.8	65.1	66.2	66.1	66.9	66.9	66.9	66.9
1000	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2	59.2	60.4	62.8	63.8	63.8	64.7	64.7	64.7	64.7
1250	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.6	56.6	57.8	60.2	61.3	61.4	62.4	62.4	62.4	62.4
1600	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.8	53.8	54.9	57.5	58.5	58.7	59.7	59.7	59.7	59.7
2000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.7	50.7	51.8	54.4	55.3	55.6	56.5	56.5	56.5	56.5
2500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.4	47.4	48.4	51.1	51.8	52.2	53.1	53.1	53.1	53.1
3150	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.9	44.8	47.4	48.0	48.5	49.3	49.3	49.3	49.3
4000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.0	40.0	40.9	43.4	43.9	44.5	45.1	45.1	45.1	45.1
5000	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.9	35.9	36.8	39.1	39.4	40.1	40.7	40.7	40.7	40.7
6300	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.5	31.5	32.4	34.6	34.9	35.6	36.1	36.1	36.1	36.1
8000	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	28.7	31.1	31.3	32.1	32.8	32.8	32.8	32.8
10000	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.0	24.0	24.9	27.5	27.9	28.8	29.5	29.5	29.5	29.5
12500	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2	20.2	21.2	24.0	24.7	25.3	26.5	26.5	26.5	26.5
16000	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	16.4	16.4	17.5	20.7	21.8	22.3	23.7	23.7	23.7	23.7
20000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.9	12.9	14.1	17.6	19.1	19.5	21.1	21.1	21.1	21.1
25000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.7	9.7	11.0	14.8	16.4	16.8	18.5	18.5	18.5	18.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
J75-P-17 ENGINE IN THE																			
TEXAS ASE MUSH HOUSE																			
(OPERATIONS:)																			
(AFTERBURNER POWER (103%))																			
(SINGLE ENGINE)																			
(GROUND RUNUP IN THE)																			
(TEXAS ASE MUSH HOUSE)																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 8F-717-081																			
RUN 03																			
AIRCRAFT CODE 717																			
OPERATION CODE 00103																			
PROFILE VERSION A																			
20 NOV 81																			
PAGE G1																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.6	74.6	75.7	78.0	80.3	79.6	79.5	79.5	79.5	79.5
250	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.5	72.5	73.7	76.0	78.3	77.5	77.5	77.5	77.5	77.5
315	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	70.4	70.4	71.6	73.9	76.2	75.4	75.4	75.4	75.4	75.4
400	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.3	68.3	69.5	71.8	74.1	73.3	73.4	73.4	73.4	73.4
500	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.2	66.2	67.3	69.6	72.0	71.2	71.3	71.3	71.3	71.3
630	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	64.0	64.0	65.1	67.4	69.8	69.0	69.1	69.1	69.1	69.1
800	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.6	61.6	62.8	65.1	67.5	66.8	66.9	66.9	66.9	66.9
1000	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2	59.2	60.4	62.8	65.1	64.5	64.7	64.7	64.7	64.7
1250	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.6	56.6	57.8	60.2	62.6	62.1	62.4	62.4	62.4	62.4
1600	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.8	53.8	54.9	57.5	59.8	59.4	59.7	59.7	59.7	59.7
2000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.7	50.7	51.8	54.4	56.6	56.3	56.5	56.5	56.5	56.5
2500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.4	47.4	48.4	51.1	53.1	52.9	53.1	53.1	53.1	53.1
3150	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.9	44.8	47.4	49.3	49.2	49.3	49.3	49.3	49.3
4000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.0	40.0	40.9	43.4	44.9	45.0	45.1	45.1	45.1	45.1
5000	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.9	35.9	36.8	39.1	40.2	40.6	40.7	40.7	40.7	40.7
6300	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.5	31.5	32.4	34.6	35.4	35.9	36.1	36.1	36.1	36.1
8000	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	28.7	31.1	31.5	32.2	32.8	32.8	32.8	32.8
10000	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.0	24.0	24.9	27.5	27.3	28.6	29.5	29.5	29.5	29.5
12500	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2	20.2	21.2	24.0	24.7	25.3	26.5	26.5	26.5	26.5
16000	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	16.4	16.4	17.5	20.7	21.0	22.3	23.7	23.7	23.7	23.7
20000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.9	12.9	14.1	17.6	19.1	19.5	21.1	21.1	21.1	21.1
25000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.7	9.7	11.0	14.6	16.4	16.8	18.5	18.5	18.5	18.5

[illegible]

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE (TF50-P-100)

DUKING GROUND RUN-UP OPERATIONS

TEST 9F-718-001
AIRCRAFT CODE: 710
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting

Engine Runup, 85% RPM	266
Military Power, 96% RPM	272
Afterburner Power, 96% RPM	278

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AERZIGHI - APARTMENT
HERSON APT. RES. FORCE
LABORATORY

JSAF HUSH HOUSE (TF 30-P-100)
JSAF HUSH HOUSE (TF 30-P-100)
JSAF HUSH HOUSE (TF 30-P-100)

HUSH HOUSE(TF30-P-100)
HUSH HOUSE(TF30-P-100)
HUSH HOUSE(TF30-P-100)

1JSH 1JUSE(TF30-P-100)
 1JSH 1JUSE(TF30-P-100)
 1JSH 1JUSE(TF30-P-100)

HUSH HOUSE (TF30-P-100)
HUSH HOUSE (TF30-P-100)
HUSH HOUSE (TF30-P-100)

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (Dp) (1/3 OCTAVE BAND (DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (TF30-P-100 ENGINE IN THE (65% RPM (TEXAS ASE HUSH HOUSE (SINGLE ENGINE ((GROUND RUNUP IN THE ((TEXAS ASE HUSH HOUSE (BAND CENTER (FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 )																			) IDENTIFICATION:) OMEGA 8.2) TEST BF-710-001) RUN 01) AIRCRAFT CODE 710) OPERATION CODE 00110) PROFILE VERSION A) 20 NOV 81) PAGE C3		
(50 67 67 67 67 67 67 67 67 67 67 66 66 69 72 74 74 74 74 )																			) METEOROLOGY:) TEMP = 59 F) BAR PRESS = 29.92 IN HG) REL HUMID = 70 %) DELTA N = 0.0 DB		
(63 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65< 65<))		
(80 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63< 63<))		
(100 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61< 61<))		
(125 53 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59))		
(160 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57< 57<))		
(200 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56< 56<))		
(250 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54< 54<))		
(315 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52< 52<))		
(400 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51< 51<))		
(500 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49< 49<))		
(630 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48< 48<))		
(800 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46< 46<))		
(1000 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44< 44<))		
(1250 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43< 43<))		
(1600 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41< 41<))		
(2000 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40< 40<))		
(2500 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38))		
(3150 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51))		
(4000 43 43 43 43 43 43 43 43 43 43 43 43 43 43 43 43 43 43 43))		
(5000 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39))		
(6300 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44 44))		
(8000 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40))		
(10000 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38))		
(OVERALL 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71))		

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				OMEGA 8.2	
NOISE SOURCE/SUBJECT:																				TEST 8F-718-001	
TF30-P-100 ENGINE IN THE																				RUN 01	
TEXAS ASE HUSH HOUSE																				AIRCRAFT CODE 718	
(OPERATION CODE 00113	
(PROFILE VERSION A	
(20 NOV 81	
(PAGE 03	
METEOROLOGY:																					
TEMP = 59 F																					
BAR PRESS =29.92 IN HG																					
REL HUMID = 70 %																					
DELTA N = 0.0 DB																					
ANGLE (DEGREES)																					
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
(FEET)																					
200	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	73.4	71.6	72.8	74.1	73.7	74.7	74.7	74.7	74.7		
250	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	71.0	69.3	70.5	71.7	71.4	72.3	72.3	72.3	72.3		
315	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	68.7	66.9	68.1	69.4	69.0	69.9	69.9	69.9	69.9		
400	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	66.2	64.3	65.7	66.3	66.6	67.5	67.5	67.5	67.5		
500	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	63.6	61.6	63.0	64.3	64.0	64.9	64.9	64.9	64.9		
630	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	60.8	58.6	60.1	61.5	61.2	62.1	62.1	62.1	62.1		
800	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	57.7	55.4	56.9	58.4	58.1	59.1	59.1	59.1	59.1		
1000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	54.3	51.9	53.3	55.0	54.7	55.8	55.8	55.8	55.8		
1250	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	50.7	47.8	49.6	51.1	51.1	51.9	51.9	51.9	51.9		
1600	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	46.9	43.3	45.8	48.7	47.3	47.6	47.6	47.6	47.6		
2000	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	42.6	37.4	41.4	42.3	42.9	42.8	42.8	42.8	42.8		
2500	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.2	28.9	35.1	36.1	36.2	37.1	37.1	37.1	37.1		
3150	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	28.5	17.2	24.0	27.4	28.0	30.1	30.1	30.1	30.1		
4000	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.2	5.5	14.5	14.3	15.3	20.8	20.8	20.8	20.8		
5000	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.2		5.0	2.3	2.6	7.1	7.1	7.1	7.1		
6300																					
8000																					
10000																					
12500																					
16000																					
20000																					
25000																					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(TF30-P-100 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATION:																			
(85% RPM																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS =29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST BF-718-001																			
RUN 01																			
(AIRCRAFT CODE 718																			
(OPERATION CODE 00118																			
(PROFILE VERSION A																			
(20 NOV 61																			
(PAGE E3																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
250	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
315	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
400	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
500	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
630	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
800	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
1000	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
1250	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
1600	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
2500	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
3150	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
4000	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
5000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(TF30-P-100 ENGINE IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
(OPERATION:)																			
(85% RPM)																			
(SINGLE ENGINE)																			
(GROUND RUNUP IN THE)																			
(TEXAS ASE HUSH HOUSE)																			
METEOROLOGICAL DATA:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = 0.0 DB)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	61.4	58.1	59.6	60.7	60.3	61.2	61.2	61.2	61.2
250	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	59.3	56.0	57.5	58.6	58.3	59.1	59.1	59.1	59.1
315	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	57.2	53.8	55.4	56.5	56.2	57.0	57.0	57.0	57.0
400	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	55.1	51.7	53.3	54.3	54.0	54.8	54.8	54.8	54.8
500	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	52.9	49.4	51.1	52.1	51.8	52.6	52.6	52.6	52.6
630	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	50.6	47.1	48.8	49.8	49.5	50.4	50.4	50.4	50.4
800	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	48.2	44.6	46.4	47.4	47.1	48.0	48.0	48.0	48.0
1000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	45.8	42.1	43.8	44.8	44.6	45.6	45.6	45.6	45.6
1250	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	43.1	39.3	41.1	42.1	41.9	43.0	43.0	43.0	43.0
1600	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	40.3	36.4	38.3	39.2	39.1	40.3	40.3	40.3	40.3
2000	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	37.4	33.4	35.2	36.2	36.1	37.4	37.4	37.4	37.4
2500	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	34.2	30.0	31.9	32.8	32.7	34.2	34.2	34.2	34.2
3150	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	30.7	26.4	28.2	29.2	29.0	30.8	30.8	30.8	30.8
4000	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	26.3	22.0	24.0	25.0	24.8	26.8	26.8	26.8	26.8
5000	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	21.6	17.4	19.5	20.5	20.0	22.4	22.4	22.4	22.4
6300	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	16.7	12.6	14.8	15.8	15.3	17.7	17.7	17.7	17.7
8000	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.7	8.5	10.9	11.7	11.4	13.6	13.6	13.6	13.6
10000	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	4.2	6.8	7.4	7.4	9.2	9.2	9.2	9.2
12500	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	.2	2.8	3.2	3.6	5.0	5.0	5.0	5.0
16000																.9	.9	.9	.9
20000																			
25000																			

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 ((DISTANCE = 250 FEET
 ((NOISE SOURCE/SUBJECT: (OPERATIONS:
 ((TF30-P-100 ENGINE IN THE (85% RPM
 ((TEXAS ASE HUSH HOUSE (SINGLE ENGINE
 (((GROUND RUNUP IN THE
 (((TEXAS ASE HUSH HOUSE
 ((((METEOROLGY:
 ((((TEMP = 59 F
 ((((BAR PRESS = 29.92 IN HG
 ((((REL HUMID = 70 %
 ((((DELTA N = 0.0 DB
 (((((IDENTIFICATION:
 (((((OMEGA 6.2
 (((((TEST BF-718-001
 (((((RUN 01
 (((((AIRCRAFT CODE 718
 (((((OPERATION CODE 00119
 (((((PROFILE VERSION A
 (((((20 NOV 81
 (((((PAGE J3

	P=PNLT											A=AL											T=ALT														
	-20	-10	0	10	20	30	40	50	60	70	80		-20	-10	0	10	20	30	40	50	60	70	80		-20	-10	0	10	20	30	40	50	60	70	80		
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 718																			
TF30-P-100 ENGINE IN THE (MILITARY POWER (96%)) TEMP = 59 F) OPERATION CODE 00104																			
TEXAS ASE HUSH HOUSE (SINGLE ENGINE)) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
(GROUND RUNUP IN THE)) REL HUMID = 70 %) 20 NOV 81																			
(TEXAS ASE HUSH HOUSE)) DELTA N = 0.0 DB) PAGE C2																			
BAND CENTER																			
FREQ (HZ)																			
50	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
63	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
80	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
100	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
125	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
160	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
200	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
250	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
315	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
400	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
500	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
630	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
800	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1000	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
1250	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1600	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2000	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2500	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
3150	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
4000	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
5000	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
6300	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
8000	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
10000	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
OVERALL	80	80	80	80	80	80	80	80	80	80	81	83	83	85	89	89	89	89	89

TABLE: PERCEIVED NOISE LEVEL (PN08)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(TF30-P-100 ENGINE IN THE)										TEMP = 59 F									
(TEXAS ASE HUSH HOUSE)										BAR PRESS =29.92 IN HG									
()										REL HUMID = 70 %									
(TEXAS ASE HUSH HOUSE)										DELTA N = 0.0 DB									
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	81.3	80.6	83.3	84.8	86.6	89.7	89.7	89.7	89.7
250	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	78.9	78.1	80.9	82.4	84.1	87.1	87.1	87.1	87.1
315	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	76.4	75.6	78.5	80.0	81.6	84.5	84.5	84.5	84.5
400	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	74.0	73.1	76.0	77.5	79.1	81.9	81.9	81.9	81.9
500	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	71.4	70.5	73.5	75.0	76.6	79.2	79.2	79.2	79.2
630	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.8	67.9	70.9	72.5	73.9	76.5	76.5	76.5	76.5
800	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	65.9	65.0	68.0	69.5	71.0	73.7	73.7	73.7	73.7
1000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.8	62.1	64.9	66.5	68.2	70.8	70.8	70.8	70.8
1250	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	59.2	58.5	61.5	63.1	65.1	67.7	67.7	67.7	67.7
1600	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	55.1	54.2	57.5	59.2	61.8	64.4	64.4	64.4	64.4
2000	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.9	49.4	52.9	55.2	57.9	60.1	60.1	60.1	60.1
2500	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	48.0	50.4	53.5	55.3	55.3	55.3	55.3
3150	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.7	38.7	42.7	44.8	48.0	49.7	49.7	49.7	49.7
4000	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.0	30.8	35.0	37.9	41.6	44.0	44.0	44.0	44.0
5000	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	20.2	22.3	26.8	29.3	34.3	36.7	36.7	36.7	36.7
6300	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.2	9.0	16.1	19.2	25.9	29.0	29.0	29.0	29.0
8000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	.3	.3	5.3	9.0	15.0	21.3	21.3	21.3	21.3
10000															4.2	8.6	8.6	8.6	8.6
12500																			
16000																			
20000																			
25000																			

[illegible]

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:											METEOROLOGY:									
(TF30-P-100 ENGINE IN THE)											TEMP = 59 F									
(TEXAS ASE HUSH HOUSE)											BAR PRESS =29.92 IN HG									
()											REL HUMID = 70 %									
(TEXAS ASE HUSH HOUSE)											DELTA N = 0.0 DB									
DISTANCE																				
ANGLE (DEGREES)																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	67.5	69.0	71.3	72.3	72.3	72.3	72.3	72.3
250	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.9	65.4	66.9	69.2	70.2	70.2	70.2	70.2	70.2
315	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.8	63.3	64.9	67.1	68.1	68.1	68.1	68.1	68.1
400	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.7	61.1	62.7	65.0	66.0	66.0	66.0	66.0	66.0
500	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.5	58.9	60.5	62.7	63.8	63.8	63.8	63.8	63.8
630	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.3	56.6	58.2	60.4	61.5	61.5	61.5	61.5	61.5
800	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.9	54.7	56.8	58.0	59.2	59.2	59.2	59.2	59.2
1000	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	49.5	51.7	53.2	55.4	56.8	56.8	56.8	56.8	56.8
1250	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.8	49.0	50.5	52.8	54.3	54.3	54.3	54.3	54.3
1600	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	46.2	47.5	49.9	51.6	51.6	51.6	51.6	51.6
2000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.9	43.1	44.5	46.9	48.8	48.8	48.8	48.8	48.8
2500	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	39.9	41.3	43.7	45.7	45.7	45.7	45.7	45.7
3150	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.1	36.3	37.7	40.2	42.4	42.4	42.4	42.4	42.4
4000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.2	32.5	33.8	36.5	38.7	38.7	38.7	38.7	38.7
5000	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.1	28.4	29.5	32.0	34.7	34.7	34.7	34.7	34.7
6300	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	21.8	24.0	25.2	28.0	30.3	30.3	30.3	30.3	30.3
8000	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.1	20.1	21.2	23.9	26.3	26.3	26.3	26.3	26.3
10000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.2	14.0	16.1	17.0	19.6	22.1	22.1	22.1	22.1	22.1
12500	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.3	9.7	11.9	12.8	15.1	17.7	17.7	17.7	17.7	17.7
16000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.4	5.5	7.8	8.5	10.7	13.3	13.3	13.3	13.3	13.3
20000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.8	1.7	3.9	4.7	6.6	9.3	9.3	9.3	9.3	9.3
25000													.3	1.1	2.9	5.8	5.8	5.8	5.8	5.8

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY: ()
 IF30-P-100 ENGINE IN THE (MILITARY POWER (96%)) TEMP = 59 F
 TEXAS ASE HUSH HOUSE (SINGLE ENGINE) BAR PRESS = 29.92 IN HG
 (GROUND RUNUP IN THE) REL HUMID = 70 %
 (TEXAS ASE HUSH HOUSE) DELTA N = 0.0 DB
 IDENTIFICATION: ()
 () OMEGA 8.2
 () TEST BF-716-001
 RUN 02
 () AIRCRAFT CODE 716
 () OPERATION CODE 00104
 () PROFILE VERSION A
 () 20 NOV 81
 () PAGE J2

P=PNLT											A=AL	I=ALT
	0	10	20	30	40	50	60	70	80	90		
0	X	.
10	X	P
20	X	P
30	X	P
40	X	P
50	X	P
60	X	P
70	X	P
80	X	P
90	X	P
100	X	P
110	X	P
120	X	P
130	X	P
140	X	P
150	X	P
160	X	P
170	X	P
180	X	P

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) (1/3 OCTAVE BAND (DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (AIRCRAFT CODE 718 (TF30-P-100 ENGINE IN THE (AFTERBURNER POWER (96%) (TEMP = 59 F (OPERATION CODE 00103 (TEXAS ASE HUSH HOUSE (SINGLE ENGINE (BAR PRESS = 29.92 IN HG (PROFILE VERSION A ((GROUND RUNUP IN THE (REL HUMID = 70 % (20 NOV 81 ((TEXAS ASE HUSH HOUSE (DELTA N = 0.0 DB (PAGE C1 (BAND CENTER (FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 																		
(50	89	89	89	89	89	89	89	89	89	92	96	99	98	102	103	103	103	103
(63	88	88	88	88	88	88	88	88	88	89	91	94	92	96	99	99	99	99
(80	86	86	86	86	86	86	86	86	86	87	89	89	89	90	93	93	93	93
(100	83	83	83	83	83	83	83	83	83	87	88	87	87	87	90	90	90	90
(125	80	80	80	80	80	80	80	80	80	82	85	82	85	86	86	86	86	86
(160	76	76	76	76	76	76	76	76	76	77	79	82	81	82	82	82	82	82
(200	70	70	70	70	70	70	70	70	70	72	75	78	77	78	78	78	78	78
(250	68	68	68	68	68	68	68	68	68	68	71	74	74	76	73	73	73	73
(315	65	65	65	65	65	65	65	65	65	64	66	70	70	69	71	71	71	71
(400	63	63	63	63	63	63	63	63	63	63	63	65	66	67	67	67	67	67
(500	64	64	64	64	64	64	64	64	64	64	65	65	66	68	66	66	66	66
(630	64	64	64	64	64	64	64	64	64	64	64	67	67	68	67	67	67	67
(800	65	65	65	65	65	65	65	65	65	65	66	68	67	69	67	67	67	67
(1000	65	65	65	65	65	65	65	65	65	66	66	68	67	69	67	67	67	67
(1250	64	64	64	64	64	64	64	64	64	65	66	67	67	69	67	67	67	67
(1600	64	64	64	64	64	64	64	64	64	64	64	67	66	69	66	66	66	66
(2000	62	62	62	62	62	62	62	62	62	62	63	65	65	66	65	65	65	65
(2500	59	59	59	59	59	59	59	59	59	59	60	64	62	62	61	61	61	61
(3150	58	58	58	58	58	58	58	58	58	58	59	60	59	60	59	59	59	59
(4000	55	55	55	55	55	55	55	55	55	56	57	57	57	58	57	57	57	57
(5000	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
(6300	53	53	53	53	53	53	53	53	53	53	53	53	53	55	54	54	54	54
(8000	53	53	53	53	53	53	53	53	53	53	53	53	52	53	52	52	52	52
(10000	49	49	49	49	49	49	49	49	49	49	49	49	49	50	49	49	49	49
(OVERALL	93	93	93	93	93	93	93	93	93	96	98	101	100	103	105	105	105	105

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:	(OPERATION:)										(METEOROLOGY:)										(AIRCRAFT)			
	TF30-P-100 ENGINE IN THE)										TEMP = 54 F)										OPERATION CODE 00103)			
DISTANCE (FEET)	TEXAS ASE HUSH HOUSE)										SINGLE ENGINE)										BAR PRESS =29.92 IN HG)			
	GROUND RUNUP IN THE)										REL HUMID = 70 %)										20 NOV 81)			
	TEXAS ASE HUSH HOUSE)										DELTA N = 0.0 DB)										PAGE D1)			
ANGLE (DEGREES)																								
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180					
200	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	96.1	98.1	100.3	99.9	102.2	102.7	102.7	102.7	102.7					
250	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	94.0	96.0	98.2	97.8	100.2	100.6	100.6	100.6	100.6					
315	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.8	93.9	96.1	95.7	98.1	98.5	98.5	98.5	98.5					
400	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	89.5	91.7	94.0	93.5	95.9	96.4	96.4	96.4	96.4					
500	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	87.2	89.2	91.8	91.4	93.7	94.3	94.3	94.3	94.3					
630	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	84.7	86.4	89.3	88.9	91.5	92.0	92.0	92.0	92.0					
800	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	81.8	83.6	86.5	86.0	89.1	89.7	89.7	89.7	89.7					
1000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	78.7	80.7	83.6	83.1	86.3	87.2	87.2	87.2	87.2					
1250	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	75.3	77.6	80.5	80.1	83.3	84.2	84.2	84.2	84.2					
1600	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	71.6	74.3	77.3	76.8	80.0	80.9	80.9	80.9	80.9					
2000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.5	70.1	73.1	72.7	75.9	76.7	76.7	76.7	76.7					
2500	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	62.9	65.4	68.5	68.0	71.1	71.9	71.9	71.9	71.9					
3150	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	57.7	60.2	63.3	62.9	65.9	66.6	66.6	66.6	66.6					
4000	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	52.1	53.8	57.1	56.5	59.9	60.3	60.3	60.3	60.3					
5000	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.3	46.7	50.0	49.3	53.1	53.5	53.5	53.5	53.5					
6300	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.4	39.9	43.3	42.2	45.1	45.6	45.6	45.6	45.6					
8000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	33.0	33.8	37.9	36.5	40.1	40.4	40.4	40.4	40.4					
10000	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	23.5	23.7	30.0	27.8	33.4	34.6	34.6	34.6	34.6					
12500	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	12.2	6.8	16.6	15.9	24.4	26.8	26.8	26.8	26.8					
16000											1.0		3.2	3.3	13.0	17.2	17.2	17.2	17.2					
20000															6.9	9.6	9.6	9.6	9.6					
25000															.9	1.9	1.9	1.9	1.9					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				OMEGA 8.2	
NOISE SOURCE/SUBJECT:																				TEST BF-718-001	
TF30-P-100 ENGINE IN THE																				RUN 03	
TEXAS ASE HUSH HOUSE																				AIRCRAFT CODE 718	
(OPERATION:)																				OPERATION CODE 08103	
(AFTERBURNER POWER (96%))																				PROFILE VERSION A	
(SINGLE ENGINE)																				20 NOV 81	
(GROUND RUNUP IN THE)																				PAGE E1	
(TEXAS ASE HUSH HOUSE)																					
METEOROLOGY:																					
TEMP = 59 F																					
BAR PRESS =29.92 IN HG																					
REL HUMID = 70 %																					
DELTA N = 0.0 DB																					
ANGLE (DEGREES)																					
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
(FEET)																					
200	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	96.1	98.1	100.3	99.3	102.2	102.7	102.7	102.7	102.7		
250	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	94.0	96.0	98.2	97.8	100.2	100.6	100.6	100.6	100.6		
315	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.8	93.9	95.1	95.7	98.1	98.5	98.5	98.5	98.5		
400	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	89.5	91.7	94.0	93.6	95.9	96.4	96.4	96.4	96.4		
500	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	87.2	89.2	91.8	91.4	93.7	94.3	94.3	94.3	94.3		
530	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	84.7	86.4	88.3	88.3	91.5	92.0	92.0	92.0	92.0		
600	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	81.8	83.6	86.5	86.0	89.1	89.7	89.7	89.7	89.7		
1000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	78.7	80.7	83.6	83.1	86.3	87.2	87.2	87.2	87.2		
1250	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	75.3	77.6	80.5	80.1	83.3	84.2	84.2	84.2	84.2		
1600	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	71.6	74.3	77.3	76.8	80.0	80.9	80.9	80.9	80.9		
2000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.5	70.1	73.1	72.7	75.9	76.7	76.7	76.7	76.7		
2500	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	62.9	65.4	68.5	68.0	71.1	71.9	71.9	71.9	71.9		
3150	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	58.4	60.2	63.3	62.8	65.9	66.6	66.6	66.6	66.6		
4000	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	52.1	53.8	57.1	56.5	59.9	60.3	60.3	60.3	60.3		
5000	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.3	48.7	50.0	49.3	53.1	53.5	53.5	53.5	53.5		
6300	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.4	39.9	43.3	42.2	45.1	45.6	45.6	45.6	45.6		
8000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	33.0	33.8	37.9	36.5	40.1	40.4	40.4	40.4	40.4		
10000	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	23.5	23.7	30.0	27.8	33.4	34.6	34.6	34.6	34.6		
12500	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	12.2	6.8	15.6	15.9	24.4	26.8	26.8	26.8	26.8		
16000											1.0		3.2	3.3	13.0	17.2	17.2	17.2	17.2		
20000															6.9	9.6	9.6	9.6	9.6		
25000															.9	1.9	1.9	1.9	1.9		

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS:																			
TF30-P-100 ENGINE IN THE																			
TEXAS ASE HUSH HOUSE																			
(OPERATIONS:																			
(AFTERBURNER POWER (96%)																			
(SINGLE ENGINE																			
(GROUND RUNUP IN THE																			
(TEXAS ASE HUSH HOUSE																			
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS =29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
) PAGE F1																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST BF-718-001																			
) RUN 03																			
) AIRCRAFT CODE 718																			
) OPERATION CODE 00103																			
) PROFILE VERSION A																			
) 20 NOV 81																			
) PAGE F1																			

ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
200	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	79.7	81.5	80.3	82.7	82.8	82.8	82.8	82.8
250	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	76.7	77.7	79.4	78.8	80.6	80.7	80.7	80.7	80.7
315	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.6	75.6	77.3	76.7	78.6	78.7	78.7	78.7	78.7
400	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	72.5	73.5	75.2	74.6	76.5	76.6	76.6	76.6	76.6
500	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	70.3	71.3	73.0	72.5	74.3	74.5	74.5	74.5	74.5
530	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.0	69.1	70.8	70.2	72.0	72.3	72.3	72.3	72.3
800	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.7	66.7	68.4	67.8	69.7	70.0	70.0	70.0	70.0
1000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	63.2	64.2	66.0	65.4	67.3	67.7	67.7	67.7	67.7
1250	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	60.6	61.5	63.4	62.8	64.8	65.2	65.2	65.2	65.2
1600	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	57.7	58.6	60.5	60.0	62.1	62.3	62.3	62.3	62.3
2000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	54.7	55.4	57.4	56.8	59.0	59.1	59.1	59.1	59.1
2500	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	51.4	52.0	54.0	53.4	55.6	55.5	55.5	55.5	55.5
3150	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	47.9	48.3	50.4	49.8	52.0	51.7	51.7	51.7	51.7
4000	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	44.1	44.3	46.4	45.8	48.0	47.4	47.4	47.4	47.4
5000	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.0	40.1	42.2	41.5	43.8	43.0	43.0	43.0	43.0
6300	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	35.7	35.7	37.6	37.1	39.3	38.4	38.4	38.4	38.4
8000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	31.8	31.9	34.0	33.4	35.6	35.1	35.1	35.1	35.1
10000	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.7	28.1	30.3	29.7	31.9	31.9	31.9	31.9	31.9
12500	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.6	24.4	26.5	26.0	28.3	28.9	28.9	28.9	28.9
16000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	19.7	21.0	23.1	22.6	25.0	26.1	26.1	26.1	26.1
20000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	16.1	17.9	19.9	19.5	22.0	23.3	23.3	23.3	23.3
25000	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.8	14.9	17.0	16.5	19.1	20.7	20.7	20.7	20.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				OMEGA 8.2	
NOISE SOURCE/SUBJECT:																				TEST BF-718-001	
(TF30-P-100 ENGINE IN THE)																				RUN 03	
(TEXAS ASE HUSH HOUSE)																				AIRCRAFT CODE 718	
()																				OPERATION CODE 00103	
()																				BAR PRESS = 29.92 IN HG	
()																				REL HUMID = 70 %	
()																				20 NOV 81	
()																				DELTA N = 0.0 DB	
()																				PAGE G1	
DISTANCE																					
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	78.8	79.7	81.5	80.9	82.7	82.8	82.8	82.8	82.8		
250	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	76.7	77.7	79.4	78.3	80.6	80.7	80.7	80.7	80.7		
315	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.6	75.6	77.3	76.7	78.6	78.7	78.7	78.7	78.7		
400	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	72.5	73.5	75.2	74.6	76.5	76.6	76.6	76.6	76.5		
500	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	70.3	71.3	73.0	72.5	74.3	74.5	74.5	74.5	74.5		
630	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	68.1	69.1	70.8	70.2	72.0	72.3	72.3	72.3	72.3		
800	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.7	66.7	68.4	67.8	69.7	70.0	70.0	70.0	70.0		
1000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	63.2	64.2	66.0	65.4	67.3	67.7	67.7	67.7	67.7		
1250	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	60.6	61.5	63.4	62.8	64.8	65.2	65.2	65.2	65.2		
1600	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	57.7	58.6	60.5	60.0	62.1	62.3	62.3	62.3	62.3		
2000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	54.7	55.4	57.4	56.8	59.0	59.1	59.1	59.1	59.1		
2500	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	51.4	52.0	54.0	53.4	55.6	55.5	55.5	55.5	55.5		
3150	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	47.9	48.3	50.4	49.5	52.0	51.7	51.7	51.7	51.7		
4000	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	44.1	44.3	46.4	45.8	48.0	47.4	47.4	47.4	47.4		
5000	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.0	40.1	42.2	41.5	43.8	43.0	43.0	43.0	43.0		
6300	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	35.7	35.7	37.8	37.1	39.3	38.4	38.4	38.4	38.4		
8000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	31.8	31.9	34.0	33.4	35.6	35.1	35.1	35.1	35.1		
10000	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.7	28.1	30.3	29.7	31.9	31.9	31.9	31.9	31.9		
12500	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.6	24.4	25.5	26.0	28.3	28.9	28.9	28.9	28.9		
16000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	19.7	21.0	23.1	22.5	25.0	26.1	26.1	26.1	26.1		
20000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	16.1	17.9	19.9	19.5	22.0	23.3	23.3	23.3	23.3		
25000	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.8	14.9	17.0	16.5	19.1	20.7	20.7	20.7	20.7		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

TF30-P-100 ENGINE IN THE

TEXAS ASE HUSH HOUSE

OPERATION:

AFTERBURNER POWER (90%)

SINGLE ENGINE

GROUND RUNUP IN THE

TEXAS ASE HUSH HOUSE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST BF-718-001

RUN 03

AIRCRAFT CODE 718

OPERATION CODE 00103

PROFILE VERSION A

20 NOV 81

PAGE J1

	P=PNLT										A=AL	I=ALT
	10	20	30	40	50	60	70	80	90	100	110	
ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA											
0	P
10	X	.	.	.	P
20	X	.	.	.	P
30	X	.	.	.	P
40	X	.	.	.	P
50	X	.	.	.	P
60	X	.	.	.	P
70	X	.	.	.	P
80	X	.	.	.	P
90	X	.	.	.	P
100	X	.	.	.	P
110	X	.	.	.	P
120	X	.	.	.	P
130	X	.	.	.	P
140	X	.	.	.	P
150	X	.	.	.	P
160	X	.	.	.	P
170	X	.	.	.	P
180	X	.	.	.	P

END

FILMED

1-83

DTIC